

tactggagaa agtagagttg aaaccaatca ttcaacatca tggagtg

407

<210> 2317

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-D2

<400> 2317

aataaaattg ccatagaatc cctgaacgaa ggtagaattg gcatacgagc tcatatgact 60
ggacttgccc aaggtgcaat ggatattata tttccatata tacatgagac gaaacagttt 120
ggctcccgta tcggtgattt tcaaggagtc cagtttcagt atgcacaaac tcgagttgaa 180
ttacaagcag cgcgagcgca tgtttacaac gctgctcgta tgaatgatgc aagtatatct 240
attcggaagg aagcagcctt cgccaaatac tacagtcccc aagttgccga aagaattgct 300
tccaaatgta ttgacttggc tggaggaatg ggattcgtga aggaatttgg tttggaaaaa 360
tattacagag atgtgaaaat acgacacatt tatgaaggca ccgataatat ccagttgcaa 420
acgata 426

<210> 2318

<211> 437

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-D4

<400> 2318

acgcgtccag tcaacgtcga attttccttc gacttgggcg ccaatcttct tcatcttctt 60
agaatgaaat tgaatatcgc taatcccgct actggttgct agaagcatat agaagtggac 120
gacgaaagaa aacttcatgc tttttttgac aaaagactgg tgcaagatgt cccaggagac 180
gctctaagag acgaatttaa cgatatatt ttcaagatca tgggtggaca agataaggaa 240
ggattcgcta tgaaacaagg actcttgacc actggtcgtg taagactctt attaaagaaa 300
ggagactcgg gttgccgagg gtactgtatg agagactgtg aaagaagacg aaatagcggt 360
cgcggttgca ttgtatctcc agatatagct gtgttgaacc tcatcatttt gaggaaaggc 420
gaataggata ttctctgc 437

<210> 2319
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-046-Q1-E1-D6

 <400> 2319

```

cccacgcgtc cgcccacgcg tccgcttata ggagaacagg catgtctaac tggaaggaac   60
gactagactc gtggattgga aagagtagca gtgaatattc caaaggtggc aactcttcgc   120
cagaatgggg ttcatctcct aaattgggta tcagtccttc gaaactaagc aaaagtcac   180
gcgctcaaga agtttggagt aaaacagtgc atccttgggg gcgttcttac tcaggaaaga   240
tacgttatga caccgtggat aaggacacag agaaagacac aagtatattt gagatacatg   300
atctgtccaa gaaacagagt ggcattccat aagaacagac tttgtgagtt ttcaatacaa   360
tactgtgctt gttgttataa ttttcataca tgagtgtaca tgctgttttg ttggac     416
  
```

<210> 2320
 <211> 420
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-046-Q1-E1-D7

 <400> 2320

```

cccacgcgtc cgcgctgggc aagatggcct tgtgcaagtc aacaaacata gaaaagtaaa   60
gagattgcaa gaagataata ttttgaatag agcactatca caaccaggag atgtatttct   120
gtgcttttgc aacatccagt tgttggtgaa tgcagaaaga gctattatag gaaatattac   180
ttgtccagaa agtatcgaat tgtgtcgtct attagctgga catatagcgg tttggttcga   240
tgaacatttg gatgactttc gtttggaagc tatcttggga gcactattgt gtacttggtta   300
ttgtgagtgg aagcgttttg aaggagaatt ggggggtacaa gaatggaatg aattggagaa   360
gatattctcc ttagatactt ggaagcttgt gcttgggtaca agacaaagag tggataatat   420
  
```

<210> 2321
 <211> 277
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-E1

<400> 2321

actgtagtcc tcttttgcgc gccaaagatg caacaactgg aaatgaggca catatagtta 60
tcgatgttgg taaattcttc tatgaaagtg cactagagtg gtttccaaaa tatcaattgc 120
gcaatatcga tgcagtttta ctgacgcatg accacgcaga tcatgtgaat ggactagatg 180
at ttgagaga ttttactttg catatgagag acaactgttg tccacttcca gtatactgcg 240
aatgacagac ttttcgtaga atacaagcaa gttttcc 277

<210> 2322

<211> 398

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-046-Q1-E1-E10

<400> 2322

aggttccaca ggtgaagtca tgggaatcga cttttcttat ccagcggcat ttgtgaaagc 60
acaaatggca gcaggaactc ctcttccctt ggaaggaacg atattacttt ctttggctga 120
agaagataag aaccaagcag ttgtcttagc ccaagacttt atagatttgg gttttcgtat 180
tttagctact cgaggaactt atgtgcatct catagcagaa ggaatgaatc cttctcaagt 240
agaaatggca tttcaaatan gagaaggacg tccaaatatt gtggaccgca tcaagaatcg 300
agaaatccaa ttgtttatta tgacaccggg aatagacaaa gataccgcaa atgagaaaca 360
agtacgaagg acaagcggtg agtttaaagt gcctatga 398

<210> 2323

<211> 329

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-E3

<400> 2323

caacttttca gagtttcaat tacatactct tggtacattc attatccatg aagtatgtta 60
ttggggtagt tatgtgccgt ttctattggt ggatgccatt ccgtactttc gaaggtggaa 120

aatacaaaga gacaagggtta atgatgcctc cactcagtgga aactgtattt taggagtatt 180
aagaaatcat tttttgttag tgttgccctct tattattgtg acgcatccct tttttgcgtg 240
gatgggaacg cgagatgagt taccgctgcc ctctgtcggg gagattgctt ctcaagtgtt 300
tttatttttt gtcacogaag actttattt 329

<210> 2324
<211> 429
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-046-Q1-E1-E4
<400> 2324

acccaagcgt ccgcccacgc gtccggtaat atccaaagca attcctgctg tcatagagaa 60
acttgtttcg ttgttatatg caatgataga acatcttcca gtagaaagca aagtagtaaa 120
gtcgtctcta gcggaaatat gtagcggcct tgacggcgcc tcaagttgtg taagctacaa 180
ttggttgacg ttgttaattt tgccaggcgt agatatattt gcacatcgaa gtcctgaatt 240
gctagctttg ttgtggcggt gtggatggaa atatatgcag aatgatactt attctgttga 300
agatgcgaag gcaatgaacc tggcttggat gcgaatttat atacgcttaa tgggcatatc 360
gaagatgagt tctctcaaa caagtgttcg taaaaagtat ttcgacactt ttcatacataa 420
aggtgccat 429

<210> 2325
<211> 416
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-046-Q1-E1-E9
<400> 2325

gaccacacg tcagcccacg cgtccggtta cgtttagtaa atttcgtctt gttgggcggt 60
tcagtttgtt ttaagtacca tgtcagaggc tccgcttttt tcggatagac ccataaatgt 120
ttgtgtaact ggtgctgctg gtcaaatagc ttattcactt ttgcctttga ttgccggtgg 180
aaaagtattt ggaccgcagc aacttgtgtc ttaagattg ctcgagattg aatctgcact 240
tcctgtcctt caacgagttg ttaaggagct cgaagattgt gcctttcctt tggtagattc 300

cattttttaca acttcagacg caaaggaagc tttccgttcc tgtaacattg ccgtgctatt 360
atgtgccttt ccaacgaaac aaggaatgga aagaaacgat ttgctagaaa agaattg 416

<210> 2326
<211> 308
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-F11

<400> 2326

agcccacgcg tccgcccacg cgtccgcgga cgcgtgggtt cagtcattca tgtctgcccc 60
aaccaagcaa acaccttcaa agaaacttcg aggtgcggaa aaagccgtat tggatatggtt 120
tttaatagat gccgctaccc atctcttttg tgagctccct tttgtattcc attctttaac 180
aaccacggtg aaccaagcaa ccattggtc tgccatatta tggaaggaat atgctaaagc 240
ggatccacgt tggggtagat ttcattgactg cacggtggcc ttggaagtgc ctacctctaa 300
tttaaggg 308

<210> 2327
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-F3

<400> 2327

aagttatgag gagaaggaaa gttgcaagtc aaagcaactc atcctcgata tgctcttgga 60
aaattcggca ggtctgtttc agaattgttt tccgtgacat gtctatgtgg aaaagaagag 120
agaggatatt atatctcaaa gatgatctac ccgtgatgga ttacaaattc atcttgggta 180
atttctgaac attcatttgg tttccttata ttggaaaact ccgatgaaaa gttcgcagat 240
aaattcagta aaaagtataa cagcagaata ctctaactgg aaacatatat cgaaatttgc 300
gttatgtgaa aaaacgagtg gagttttcaa agaaccgttg cagtcttgat gtatcttacg 360
ttcattagaa tagagaaatg agtaacagaa agaaactttg cagaag 406

<210> 2328
<211> 295
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-F5

<400> 2328

accacgagt caagtttcca atgctggact ccatatgttg accaaaatga tggctttgga 60
atgggggtcct tatgatatgc ataccaatgc catcgtaacct atggtaattt ggacagaaat 120
gggacagcac gtgtgggggtg ctctgagaa atactatcta tgttggcatg tattctaccc 180
catcgttttg tacatcctgt agatgttaca tacttgaacg tacttttggc tggacaagtc 240
tcggatatga tttgtggaca gagtattgct gtgaatggtg gattaattgt gcatt 295

<210> 2329

<211> 244

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-G1

<400> 2329

gacacagcct gactttcatg gaatagactt tgtaacgctt ttggtctatt tgagctatat 60
gtcgattatc tccctggcgt ttacttttct gactggttat atcggatttc ttgcatgttt 120
ctggttttacg cgtaaaatat attctgctat tcgtgtggac tgagattgct ttttcgatgt 180
ttttttgaga gaaaagataa agttggcata ttgagagact tgtaaaaaaa aaaacaaacc 240
aaag 244

<210> 2330

<211> 291

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-G10

<400> 2330

ggctcgaccc acacgtcagc ggacgcgtgg ggaaagtccg agttccaact catcgaaaca 60
gtcgccttaa gatatagtag caaccagtct tcgagatcca cgagtgggtg attgggtgcaa 120
aattatttta caaggagtta ctatcctagt ctttcctttg gtatctcatt taccatctgg 180
tgttgtgttc ttctggacgg tgaactcttt gttgaattca ttgcagcagt ttttgcta 240

aggtagagga agacgatata tcggacttca ggaaagaaca gaattgtttg c 291

<210> 2331
<211> 162
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-G12

<400> 2331

gacccacacg taagcttgtt gcagtcattg tgttggagta tataaaggca atggctcgtca 60
ccaaataaat aaagaagtgt aaaaaaatag aaaaacataa aaaacaaaaa aaaaatgtaa 120
gaaatggata aaataaaaaa ccaataaggg aagtcgctcc ag 162

<210> 2332
<211> 386
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-046-Q1-E1-G3

<400> 2332

gtgtttctac cagatcaagg ctaacatttg gtgtaactgc ttcaattgca aaggcttggt 60
ctgacctgga tcatttacgt aatggcaagg ataaagcgct cttgaatttg cccaagtgtt 120
tcaaaagtgc caaggacaan ggcaatcttc acgctcgtca aggacaaagt tctattgaag 180
ccccaggtaa agctgagaga attgcaagac aaagagcaag atgtatccgt agtgtccaag 240
atgacgtcgt accagaggaa cccaactttc tagcaaaggt tcccaaacgg gagcgagatg 300
ggagagcagc ttttcgtcct tcaaagaagt caaaccggtt ctccctcgga gccactttag 360
aagatgtcct tctcaaaatt ccgaac 386

<210> 2333
<211> 450
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-G4

<400> 2333

cgggccggcc cagcggtcca cccaagcgtc cgaaggatta gaagatctgt tgagcttggc 60

agactatggt atcacaaatg cagaatttcc ttggagtat ttgggtcagt tgaatacgtt 120
 aaatggcttg gaaaagcttc tggattctta tcctgccaga ttgtcatat ctacgttagg 180
 gaaggaagga tgcgttctaa tgagtcgtct ggatgattcg gaagcagaac aaacgcagaa 240
 aacaaccaca aatttctcta cgtttcctat tatggcagta aagacaacat ttccgttgcc 300
 gacgctttgc agaacagaat gtatcccaa gtatcgagt atagactgtc cttgctggcc 360
 tgtcgaaagt gttgtcgata caactggagc tggagacgcc ttattggag gtattattta 420
 tgccatactt caccatttta gtcaagaaca 450

<210> 2334
 <211> 426
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-046-Q1-E1-H1
 <400> 2334

agtcatccaa ctcagcgaaa cagcaataac tgtgaaaatg cagtaaacta gcagtatgac 60
 ggaaagaccc cacaattcct gactagatag gtttaaggag gagagagaat catgaagtat 120
 aagaagtggg gtaagagatg aaagaccact gcatgaggat aaggaatcta actgagtaag 180
 gaaaataagc ttaagctact ttggctgggg aagtaaagcc taagaaagag taaattatgc 240
 aagcaaaggc atgagagaag tataatagca caagcatgct tgaagaaaaa gaaagagatt 300
 tcagaaaggg aagaaaagtc agctatagag aacaagtga ggagaactca caaagaagag 360
 agcaccgaac gatcgaagaa gaaactttgg gggtaacacg ttaatgtggt gttagagaac 420
 gtatca 426

<210> 2335
 <211> 363
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-046-Q1-E1-H11
 <400> 2335

aggttgcgtg acgccgtcgg ttggtctttg cgtgggatct tcatggctgt caagagcaaa 60
 cgtgtacgca acgtaagtaa gggcaaaaag ccgactatca actacaccat cgactgtagt 120

aatccagtag aggacggtat attcgatggt gcttctttcg agaagttttt acaagatcgc 180
 ataaaggttg atggtaaacc cggcaacttg ggaaacgtaa ttaaagttac tagaaaggat 240
 gccaaagtgg aagtgtcatc agagattcga ctttcgaaac gctacttgaa atacttgaca 300
 aagaaatata tgaagaaaca acagcttcct gaatgggtcc acgtaattgc atcgagcaaa 360
 aat 363

<210> 2336
 <211> 386
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-046-Q1-E1-H12
 <400> 2336

gaccacacg tccggttgta agagactagg tgcagctata tttgtcgatc agtcaccatt 60
 gcaattgcag tcgagtgatg gctcgtggaa acttgggtcc aaaaccttgt ccgattatgc 120
 ttctctggtt catttggaga ccttattaaa gatacaacca gaagctgtct atcaacaaaa 180
 tgtgcacgat tgtctgttcc gtgagccaag taaganagaa atcgactatt tcgtctctct 240
 ctccaaagaa gcagacgcag agtttttggc caagttgatc aacgaccacg caatggccga 300
 ctggagaccg actttgccgc atttgcaatg tccttgtctc gttatctatg gagaacaaag 360
 taaaatattt cctgaagatg caactt 386

<210> 2337
 <211> 447
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-046-Q1-E1-H2
 <400> 2337

ggtataggtc acgcgggccc agccacgcgt caggatgaaa tgcagagatc tctagagaaa 60
 ggcaagaaag aaaagaaagg aagacacagt aaatgaggcg agaaagcata ngaagtgaaa 120
 cggattacga acccgtgtag tctaagcagt aaaagaaaga atgagtaaga aaaaaaggag 180
 tcattccacc aggggagtaa aggcgcaaga aagaaacca aagcaattga cgggaatcgg 240

aaaaaggggt ggatcacgta aattaatccg atataaacgg agaaccttac ctctccaaga 300
 aggtgttgca cggctgtcga aagaacgtgc tgtgaagtga gagaacgtac gagaaagcca 360
 agtgaggaaa agaaggcaag tagagggcgg cccgagaaag gagaaggcgt aagacgtgat 420
 acagagaaaag aggaaaggat gaaatgc 447

<210> 2338
 <211> 446
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-046-Q1-E1-H3
 <400> 2338

cgggtcgacc cagcgtcgag ggaacggtaa cttgaacttt ggaaaccaaagggaatttc 60
 gggaaccaat gggaggaaaa attataaaat tgggtgcaaa aattcaacat aatcccaatg 120
 gcgttcctt caagttaaat aattaaat gctgccaatg tattccaagc attgggcat 180
 attcttggga gttgtttcaa ggaaaatctc gctcagtcac canctgaaca ttcgtcatcc 240
 gaaaactagt tgcaataact gaacaatatt ttgcaaaaga gttttgaaca tcaacatgaa 300
 gacaatgtgc agatttttag aaagaccttg ttcaagaaac atggcagcgg atcattattg 360
 aagcaacgga ctttacagca ttctgacagc gctgtgaatt gttggcaaat tctcgtcta 420
 ctttgccaca agattttcga cagtct 446

<210> 2339
 <211> 331
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-046-Q1-E1-H4
 <400> 2339

aattcacgag gaacgagcgt gaacgaagga ggaatctcaa gtaatcgagg aagaaaaagc 60
 ttcggtgaaa gcgtgaacgg attttgtaca cactgcccgt caagttctgg aagtgtgcta 120
 agaataagca ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaca aaaaaaacaa aaaaaataaa 240

aaaaaaaaat aaaaacaata aaaaataaca taaaaaaaca ataaaaaaaa aaatcacaat 300
actaaacaca aaacaagtaa aagggcagca a 331

<210> 2340
<211> 424
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-H5

<400> 2340

accacgcgt ccgatttttt gttgtggagt cgggttggtt ggtagtacag ccttaatttt 60
gtgggtgtta taaatcatcc aaggctaaat acgtaaagag gaccgaatca gggtaagagg 120
tagaggagca agaagagaag agagaatgct ggggtggagta gcgaaacaag agaagggaag 180
taaaaggtaa gaaagaggaa aggtttacga gagaaggaag tagaaagaag agagtgtaa 240
gcggcgctcat aatagaaatc cgaaaggagt agaagaaaag agagagaaga aagaaaagaa 300
gagaaaaagc ccagaagcca agataaggta tcaaagtaaa gaaagaacga aaacgagaag 360
aagagacggt acgcttagaa gcagcaaacc agagaggaaa gcgttaaagc atgaaagaaa 420
agaa 424

<210> 2341
<211> 261
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A1

<400> 2341

agactgcacg tggacacggc atctaactga gtaagtgaag tagactatga cgaacttggc 60
tggggaagta gagcctaaca gtgagtaaata tacgcatgca aaggctatta cgagaagtag 120
taatagcagt tagcatgact tgtaacgaaa gaagactcga gatttcaaata gcgcgaatga 180
atactcagcg ttatcaaaca agtgtacgtg aactcatgga gcagttatca ccgtacgac 240
gaataatcaa ccttgggggt a 261

<210> 2342
<211> 387
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A10

<400> 2342

cttcggccaa ggcgtcggcc cacgcttccg aaaacttcaa gtgattgaaa ccttctcgtc 60
tcaagatatt atagctgatg cgtttgctgg agtcggacct tttgtgattc cagctgcaaa 120
acttaaacgc tgtgttgccct ttggaaatga cctgaatccc gtatcagttg aatttatgtc 180
gaggaatatt ctaagaaatg gtgtatctga attgggttaca acatattgtt tagatgcctg 240
gtcctttata gaacagccta tacgaaaaga aatatatttt acgaaactta ttatgaacta 300
tccttcgagt agcagtgatt tcctacgtgt cctcaaaggt ctgtacacag gtcgagaaaa 360
tgcgcgcgcta cctactagat attgtta 387

<210> 2343

<211> 405

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A11

<400> 2343

gacccacgcg tcagcggacg cttgggcgga cgcttggggg aaaaatgacc accacaacga 60
caggaaaaag aattgcgtat tatgtgcacc gttggacagc aaccttgtac aagtttcttc 120
aaaagattac caacctagta ttctcttctt tattccggag caacaaaaca tattccatac 180
cttgtaaaga cttggaacag tttttccata cgtcggttga tcaagggtcca caaacgtac 240
agcaactcaa gtcaagcctg caacacacac ccaactgttc tgtcatctat catatgatac 300
aaaataaccc gggatttgat gaagaatggg tgagcaattg tatcttggaa aagacagtga 360
agttgcgtca aagtcgggaa aaggtcaaag agtaagcact gtttt 405

<210> 2344

<211> 402

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A12

<400> 2344

gaacgtcaaa aaaaattgaa ggaagaaaag gagttggaaa aaacccgggt aaaaaaagat 60
gaggaggatg acaatattct ttgaaaataa ttttgttga taataaaaga taaagaatgt 120
ttggtggatt gtatggaagt tttgcaatga gtagaacgcc aacaaggaat atcgttatgc 180
gtatgtgtat acggaacggc aatggattgt aactgatagc aaagctaagc cttgcggaac 240
ttttcaaaag ccatgttcct tttttttcga tacgaatttt aatttggaca acctcaagag 300
gtttccaaaa aagtagggaa aagtcaggac agacacttgg aagtgtcgca ctccttggca 360
gatgtgtggt tggtttcccg ccttgtatgg aaagttgtgc tg 402

<210> 2345
<211> 410
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-A2
<400> 2345

agcaaacatt tagaacaagg tatgaaggaa gcggaagaa cgcgaacgga aggacaagaa 60
ttgcacaatg ctttcttcca agattctcaa accttaagcc gagactatgt gaaacgaaga 120
gatttatctt gtgagaaagc aactcaagaa ttgacgagtt gtaagaactt gactcaagaa 180
tgtatcgaaa aaggcataga aaaggacaca agcacagcag caaaggtgaa agatggatta 240
tctgaagaaa agtcagcttt gcaagatttc cataagaagc aagtagagtt tgtcgataat 300
atagcggggt ccgtagatga attgatgact tctggattgc gagtagatga accgactagt 360
actactctc gtaagagaca gtggaattat cctcaagaat tgggacgaac 410

<210> 2346
<211> 390
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-A3
<400> 2346

ccggcccaag cgtcaggaaa aagttagctc agagactaaa acccaatgga attcttcatt 60
tgtttgtcta tggaaaatat ggaagatggg aaatccgttt gatgcaacga gctattcgat 120
tgctattagg aaaggaaaag gaaaactgga aacaaggagt ggacattgga cgcaaattat 180

tttctcgtct tccaccagat aaccgaatac gcaagagaga agaggaaaga tggtaagag 240
acaataagca agatgcgaca ttgcccata tgtatgttca cccgcaagaa gtggatttta 300
ctattgattc cttatttcat atgatcgaca gtagcaactt gcagttttta ggattctcaa 360
atcctcaagt atttgatatt tggagactga 390

<210> 2347
<211> 382
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-A5
<400> 2347

cccacacgtc cgatcaagtg gtagcgtaca agcgttcaga agaagaaaaa tggagccaag 60
caggtgaaaa aagatggcag ttattcaaaa gactggaaaa agagaatgct actgcccgt 120
ttttcttaca aaacaaagct atttttccag gtgctagagt tttggaactg gcttgtgggt 180
ccggagaaac cactttgcaa gtagctgcga aagtaagagg ttattctgta ccttcaggag 240
agaccacggg ggaagtgggtg gataaattgt tggatatatt acgtccatct agtcaccagg 300
aagggaaact ggatgggtacc agcaatagtg gttcggtagt aggtgtagat atcgccaaag 360
gaatgctgaa tgtgttcaaa ag 382

<210> 2348
<211> 397
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-A6
<400> 2348

gaccacacg taagatcaga tgatagagaa cggacgttca tgagtaacag gatgaagcca 60
gggaggtgat gaagaatggc agatattcga aatactggta agagagagtg ctactgcccg 120
ctttttctta cagtacatgg ctatttttcc aggtgctaga gttttggaac tggcttgtgg 180
ttccggagaa accactttgc aagtagctgc gaaagtaaga ggttattctg taccttcagg 240
agagaccacg ggggaagtgg tggataaatt gttggatata ttacgtccat ctagtcacca 300
cgaagggaaa ctggatggta ccagcaatag tggttcggta gtacgtgtag atatcgccaa 360

aggaatgctg aatgtgttca aaagcacgtt ggaaaat

397

<210> 2349
<211> 370
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A7

<400> 2349

cggacgcgtg ggaacaacat gccacagcat tcattcttgt ccatgggtgc ctctttgcgt 60
tccaagctcc tttcaactag actcgagctg tcgcaattgc aacaacaaag aaaagagttg 120
gaagaacaag tgcaagtatt gaaccaaacc aatcaacagt tggcatccac cgtcaaagaa 180
tataaaacga gaatatacga gttggagcaa acagcagatg ctcaaaaaca acaaatagag 240
tcgctcgaag cctgtaaaat acaaatgcaa gaagaaatag agtcattgga gaaacatata 300
ggaagtggat actttaatcc gagatataca aaagtgttgc atctcaaagg aggacctcct 360
ctttccaaaa 370

<210> 2350
<211> 407
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A8

<400> 2350

agcccacgcg tccgcccacg cgtccgaacc aatgtcgcgc aaagggttgcg gagtttgctg 60
ctcttgctgg agatttcaat cgtgctattg acttgtttga aaagggttgcc tccgtatccc 120
ttgaaaataa gctactccgc tatggtgcc aagagtttct tctccgagct ggactttgca 180
gagtctgtct cggagacgaa gtgggtgctt ctctgtcttt ggaaaagtac aaatccttag 240
attccagttt taatgacagt cgtgaagcca agcttcttga gaaagtaatt ttggcagttc 300
aagaaaatga tgaagaagcg ttactgatg cagttgcgga gtacgattct ttgtccaagc 360
ttgatccgtg gaagacgtct atcttgttga aaattaagaa aaatctc 407

<210> 2351
<211> 346
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A9

<400> 2351

attccgggct gaccacgccg tcagcacaat atttgtcttc tttaacaagt attattcgtg 60
accaactaag aagactgtct ttgtccactt ttattgtggc ctatcctaata tctggacaag 120
tctatgatac tgtgagaaaa gaggaggagtc gagaaaataa tattttctata gaacactggg 180
ttgattatgt agttggatgt ggtgcagata tcaatgggtg ttgttgtcgt acaactcctt 240
agcatattca gtgtctgaga aatcgagtga gttgttctcc aaaagacgaa cggaacacaa 300
gtctactata tgcttgaatc tcatacgatg aaaacacctg cggcta 346

<210> 2352

<211> 325

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B1

<400> 2352

agagcaagcg tgaaccgtga gggtagttca tcatggatga gacaacacgt caagatgggtg 60
ttagtgcttc tctttggact gttcgtcgtc tctctacac agttatttta gcattctctg 120
gcatcagcat tggtttggat tgacgtaaag cagacaagat atggaacgac agcttattct 180
atgatgggaa gtacattacc ttttgtgctg attctgccgc ttctgttgta taaggagggg 240
accatggagc gtgtagatat gtcatggcgt tggcgtctat aagtttgatt ctagtccttt 300
tcttgtggct ttttacattt gtaga 325

<210> 2353

<211> 424

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B10

<400> 2353

gaccacgcg ttcaggaaac agacagatgg ccaacgctgg tcaaaatggc cttgtgcaat 60
tcaacaaaca tagaaaagta aagagattgc aagaagataa tattttgaat agagcactat 120

cacaaccagg agatgtatatt ctgtgctttt gcaacatcca gttgttggtg aatgcagaaa 180
gagctattat aggaaatatt acttgtccag aaagtatcga attgtgtcgt ctattagctg 240
gacatatagc agtttggttc gatgaacatt tggatgactt tcgtttggaa gctatcttgg 300
gagcactatt gtgtacttgt tattgtgagt ggaagcggtt tgaaggagaa ttgggggtac 360
aagaatggaa tgaattggag aagatatctt ccttagatac ttggaagctt gtgcttggtg 420
caag 424

<210> 2354
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B12

<400> 2354

cccacgcttc agattagcta aaggaaatgg tcttccaagg tcggaaggaa ttacttcaaa 60
aagggtgcag gataataaag gtcgtcaaatt gactgcgcct gatcagaatc gacaaggcct 120
tggaggtgct ccttcttcac aaggacggaa tcgccaaggt gaggaaccag caggaggcag 180
aggaccctcc aagtggagag gaggttcttc tgatagagga ggaggaggag gtagaggagg 240
aggcagagga aatagtcgag gaagcagtcg cgggtggtagt ttctgagggtc caatgaataa 300
taatagacag gaaagagatg cttcacaagg ttctgccaac tctgcaaagc gtggtgggag 360
agaccgaaca aatgataaaa gtgcgacta 389

<210> 2355
<211> 400
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B2

<400> 2355

gaccacgcg tcaggatatt tctcgtcttc tttccctct tctacaaaat gtggaacagc 60
caaatgactc gtttatagca cggattatg cgcaggaagg aagtcgcctt ggaacaaagc 120
atcaggagac ttttcgcaag ttaggaactg agagcttgga ggatacagtt gcggaagccc 180
tttatgaact ttataagatg atgactgtgt ggaatcagga ccttgaagca cgtgagcacc 240

agtcgaatac gaaggaagag ctcgaaaaca cagcaaagtc tcacgccctt ttctgctata 300
 ttctaaaaat attgaagaaa tttttgcaac tgtgggggtgt cgaatctttt tcggacagtg 360
 gaaagagagt tttggcaata tacgactcgt tacagagctt 400

<210> 2356
 <211> 408
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-047-Q1-E1-B3
 <400> 2356

agccaacgcg tccgcaatta tgagaatacg tcgtttgaac gaacaaggag aagaagaaga 60
 caaagaagac gaacaagaag aaatgcaaag tgaagagttg acaaggagtt gttcgggaatt 120
 tcttctttcg tattcttccg aaatggtaga ctgtataacc tcattgagcg atgacgacga 180
 agagaaagag tcgttcgtgg cttctcgact tggacaaaaa ctgggaaaga tgctggaaag 240
 ttatgcctcg cattgtagtg gaaaaataa gactttgttg tttcgtcatg ttccggacga 300
 cacaccaacg aagcattggc ttatcgacaa gttcaagtta ccaacgagaa ccttacgggt 360
 taccttgta cctggagttc gtcgaagaag gaagaataag agttttgc 408

<210> 2357
 <211> 421
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-047-Q1-E1-B5
 <400> 2357

cccggctcga cccacacgtc agcccacgcg tccgaagggtg atacaagga tactgtctta 60
 gttccagtac atcatatatg caaggaaaat agatatgttc ggctaccaga gttgttcggt 120
 attccgtttg tcatgagagt tgcctcttgt ggagagccgg tgggtcaatt attgcatcga 180
 gttggagaat atttgaaagc caaagaggag gagataaagt cgtggaagtt gtatgaaatc 240
 agggatgggt tattttcttc attagatgac atggaaaaag tatgggttcc agaacctctg 300
 tcggatgacc gaggagagtt ttcggtttcc ttaggttttg aacataaaga tgagaatgca 360
 aaacgttggc agtcaccttt ccccaaactt tttatggaca aacccttaa gattcgggggt 420

t

421

<210> 2358
<211> 399
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B6

<400> 2358

aggtttgttg ttggtctgtt tgtgtttgtt cccactatcc aactccgttc aacaagatga 60
agcgtttgtt cctattgggc ctcttcgtga aaaggatgag cacgcaacac agccttcaca 120
acctgttgta aagccacatg gtagcaaaca ctggaagccg ctccagtgtg ctcccaacaa 180
ggaaaaagca gaggcattga taaaaaggc aaaaaatagt ttgagtgcgc ttttctcaaa 240
ccggttggtc aagcatatag acgtcgaaag ttgtcaagag tttagagtgg tcgaaataaa 300
gcttgacgaa aaaggtttga atttggataa tggacaagag catatcaagg aaagctttag 360
aatattggca gagtttctcg accaatgtgg agcgaagaa 399

<210> 2359
<211> 393
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B8

<400> 2359

agcccacgcg tccgtggatc gattcctcgt gacggagatg aagtcttacc tctcgtcttc 60
ttctgtttgt tgttgggtgc cttgtcatca cttgcctcgt tctagtggat ttcacacctc 120
tcttttttgg agagcgaatt atatgtatga acaacgaata ttgaaagaaa gttttatttc 180
acgaaataat tgactagggt gagagcgaat atgaatgtac gcaagcctca tcgttttgta 240
ataagagtcg aatgcatagc cagcaacttg cacagtaaaa tgccggcgtct tctaacagta 300
atggatcgta gcttagacag aggatggaat aggcaccaga aagcagctgt tatttggata 360
actatttcct gtttgatact ttctccgggt act 399

<210> 2360
<211> 342
<212> DNA

<213> Cyanidium caldarium
 <223> Clone ID: LIB190-047-Q1-E1-B9
 <400> 2360
 attttttaacc aaccttaata cgcaaattta acccctagta gaaaaacctc aaccggaact 60
 tccgaaggag ctaccaaagg actttctgaa aggtaagtac catatagctt gttgttagtg 120
 aaaaccaatt ttgcagattt aaacctctgt caaaaacatc ttgccaacat gtttcgttgg 180
 ttcattgttat tctcagaata caataagtgc cgaattcaaa tgactatata tagaaagtgt 240
 aaagaaagac gatacaagga aataagagaa cgctctgtggg agtgggatga aggaatatct 300
 cgctcggttaa actctaagtc tcgacagctt ctagttgaag aa 342

<210> 2361
 <211> 398
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-047-Q1-E1-C1

<400> 2361
 agaacaccga gtccatcggc atctgcctat tctcgtgaac aagtacagcg tgggtggttat 60
 ggagaatatc aatctcaaca atctgctagt tactatgtaa ccaagtattg caagaaagca 120
 gtacaacaag taacttatac ctcatgttct acttattacc catcgcaaac tgtagaacag 180
 aagacttgct acaagacagt agcagttcct acagagtatc agaaatattg ttacaagcaa 240
 gtggaacagg agcaagttgt tcaaaagagc tgtcccactt attattcagt acaaaagggtg 300
 aaatatcaga gctgccttac ttatatcacg cagccaacta tcatacccaa gtactgcagt 360
 atgtcgggtct ctgaagagta tgtacagcaa cagcaatg 398

<210> 2362
 <211> 396
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-047-Q1-E1-C11

<400> 2362
 cgcgtcagcc cagcgcgccg agaatatggt cagtctttga gtgccaatgt gtacctttgt 60

cgtccagaaa ccaaaaatat gctatattggc ccacgtgagc agaaacagcg cattcaacaa 120
acgcattgggt tttgttgtgt acctttccac agtcatcact ggaacttttg ggaagactgt 180
ggactgaaaa atttatcttc tcatctcgtg ggacaaagaa acaacgacaa cgacgacact 240
tttcttattt ctgtgaatat acaagataat actcgatctc catagtgaac agtagactag 300
tatttttttg aataacaact acgccttgta aaaatatggg ttctctagtc aaaatgaggt 360
ggcttcgctg gtcttatgaa ggggtacagt tgctga 396

<210> 2363
<211> 420
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-C12
<400> 2363

accagcgctc agaattattt tcaattgaga aatttttggg ttgtggggaa gaattttcag 60
atagaaaccc ctcaagttgg agtccctatt cacttgaagc aaacgtgtgt gacataaaac 120
aacgcaatca acagccacaa ctattggaat aggttgaatg atatacaatg ctctcaagc 180
aaaaaatata gaagaataaa gcgagtaaaa cgtttatctc tagcacaact ttttatacca 240
gcaacgttgt tggaacgctt caggggatca tcgatacttg attaattcag aatggactac 300
gtttatctca cctccgaga atccttccaa aacatacaaa cattcgagtg ctttggtttc 360
ggttaaacga aaaattccct ccagccaaat ccgttttgtt ccgagccaac tgaagaacct 420

<210> 2364
<211> 272
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-C3
<400> 2364

tgcatgatga taaggaatct aactgagtaa ggaaaataag cttaagctag tttggctggg 60
gaactaaagc ctaagaaaga gtatattagg caagcaaagg catgagagaa gtataatagc 120
agaagcatgc ttgaataaaa agaatcatat ttcataaagg gaataaatat cagctataga 180
taacaggtga aggagaactc aaccagatga tagcacccaa cgatctaata agaaactttg 240

gtggtaacat gttaatcttg tgtagagaa cg

272

<210> 2365
<211> 412
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-C4

<400> 2365

aggcatgttg gaattgaaag gagggtcgac gagctcagct tgaagaacaa agaacttgcg 60
tggggttgga cgttatttat gaacttggac tctattgaca caggaattaa tgctcctttt 120
gaccggtttg cagacgcctc acgtggagag gacgcagcag taaccaaaaa tatagtgcac 180
attcgcttgc aacaaagaaa cggccgcaag tgcttgacga cgattcaagg gcttgacaca 240
aaattggatt tgaataaaat tacaaaggcc ttcaaaaagg agttttgttg caacggttgt 300
gtcgtagacg acgcagaact gggaagagtc atccaactgc aaggagacca agaggataaa 360
gtcaaaaagt ttctagttca aggagaaatt agctgaaaaa gacctgataa ag 412

<210> 2366
<211> 395
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-C5

<400> 2366

cggacgcgtg ggacagagta ggaagaaaag agaagccatg gatgtggaga acccaccgat 60
agttttatgt tcgggtcttt gtaagagtaa catttaccgc agttggatga acaatagtga 120
gagtgagcat tggagaaata cgaatatttg ttgtcctcgt cgaggtcggc tttttcatgg 180
gagttcaatg acggaagagt ctctgatctc cgtaccttat ctattatctg agcttcgttc 240
tttgatttct tatgtttcag gcaagcctgt gctttgtaaa gggctctgcta gcttcattcg 300
tgatcgttta cggacgttga tagctttttc ttcattcttt gtggaaaggg acaacagttt 360
tatggatttc accggtttat ccaactacac gcacg 395

<210> 2367
<211> 380
<212> DNA

<213> Cyanidium caldarium
 <223> Clone ID: LIB190-047-Q1-E1-C6
 <400> 2367

agcggacgcg tggggaaaag attgcctact gaaatgattc aaataaggac tgtattaaaa 60
 gtactagaca actcaggacc aaaaacagca agatgtatag gaattcttgg accacctaaa 120
 aagtttgcta ctgtcgggtga caagattgta gttactgcag agggaaaagt ttaccacgga 180
 atcgtcgcct gttgtaaggt ggaaaagaag agaccggacg gttcctttgt aagaatcgac 240
 cagaacggag tcattctagt agattcaagt ggaaagccag tgggaaacag agtatttggt 300
 gttttgagca gtagagtga gcaaccggaa attctctcct tgggacgcgt caaaaccatg 360
 taagctttaa tagttaggtg 380

<210> 2368
 <211> 380
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-047-Q1-E1-C8
 <400> 2368

gaccacacg tcagcccacg cgtccgcccc cgcgctccgc cacgcgtccg aaccagcgtg 60
 tgacatggct acttcggaaa taaacaacca ccatcaggaa gaacaaccat tcaaggagtc 120
 cgcgctgaaa gaagtcaacg acaagttcga ccaaacctat gccgaaagcg ttgccaagga 180
 aatcatagaa agcaccgtgg gagaagagaa atacgaacac acaaagacag tggaatggac 240
 caatcaaagtg tgtgaaaaaa tactgaacaa gttgttgga ctgcaaaagg ctttcaaata 300
 taaacgtggg tgggtctatc ctcaggtaac gtttttacat ttagcgatag ccactagtct 360
 cttgttcctt attgcaaaag 380

<210> 2369
 <211> 368
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-047-Q1-E1-C9
 <400> 2369

cacgcgtcag agcagtactg aagaccgaca caggtagctg aggagaaagg agacccaaat 60
 taaggtgaga gaatggacga taaggaacta ggcaaaagga tatggtatct gcggtagaac 120
 atatgaaaga agcagcaccg actgttttagc aaaaacacag cactctgcag aaaagagaaa 180
 atgtaaagta tagagtgtgc ggcctgccaa atagtagaga agaaatcgat gaaagtgaaa 240
 gcgagtaaaa gatgaggtat agagaatggc ggtcctaact gtaaggatcc aaaggtagcg 300
 aagtacatag acgtttgaaa ggcgtccagt atgaaaggag aaatcagtgt agcactgtct 360
 agtcgtcc 368

<210> 2370
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-047-Q1-E1-D1
 <400> 2370

agcccacgcg tccgcccacg cgtccgcatt gctcgaagct ttggccttgg agaagcttgg 60
 caaagcctaa gtagaaggaa gaagaagaga gaacaggccc aaagaagaag aaagaatagt 120
 ggatgtcata gtatggcaga agaagaaagc tctcaagttt ttcacgcca actattgcta 180
 aatcaaggct ccaaagattg gcttcgttcg ttgggaaact tgctggaaac ttttacaacg 240
 gaagaggtaa aggtagcaat tcggtagtgtg ttcacgtagt tcatgtgtag gatgaagaaa 300
 agttgagtac tataatctcg cacttggaac gcgatgctac agaaatatcg agggtaggag 360
 tcttgacacg gattttattg aacaactaaa ctattaaagt cactgcaaa 409

<210> 2371
 <211> 227
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-047-Q1-E1-D10
 <400> 2371

acctacgcgt caggaactag gcagaaggat atggtatctg cggtagaaca tatgaaagaa 60
 gcagcaccga ctgttttagca taaacacagc actctgcaga aaagagaaaa tgtaaagtac 120
 agagtgtgcg gcctgcaaaa tagtagagaa gaaatcgatt aaagtgaaag cgagtaaaag 180

atgatgtata cagaatggcg gtcptaagcg taaggatcca aaggtag

227

<210> 2372
<211> 150
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D2

<400> 2372

gaccacgct caggaataga tgaggaaaga aagatcaagg aagtaagagt aagagaagga 60
gtaatgtgaa tgaaagcagg aaagtatttg aagaagagag tgtaaagcgc gtaccttttg 120
cataatgtcc cagcgagtga aagaggaagc 150

<210> 2373
<211> 251
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D3

<400> 2373

gaccacgctg tcaggtgact ttctttcaga agatattttc agttgctcct ctcaatttcg 60
aagaatggat ggcagtagtg tggttatcgt ttctgtgat tcttttggat gaaatgctca 120
agtttgtttc aagaaagttg attcaaggca atataaagaa accaagaatt tgacaagatt 180
gttggtggtg ctcaactttt ggactggaac aattccctgg tcgcctaaaa taaaaaattt 240
cctcaagtct c 251

<210> 2374
<211> 399
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D4

<400> 2374

aggtgaggaa gcaatgacga caactgccag tgctgcagca agggctatcg aaagaagaaa 60
acggatactg agtgatagtt cacagcgtct tactatagct agtggttctt ccctagaagg 120
caacacaaaa aatattgaga aactgaattc ggattcttcg aaacaacaag cgaaggaaga 180

ctccccgtta caaggggaatg agacgagaga aaccagcaa gacgcaagtg atgtgattgg 240
aaccagcgc ttggttccac agtcggaaca aaataagctt acaaacacaa aatttacagt 300
tggaggagca tttgatgggtt tttcgatggtt taagcgtctc tctcaaattt ccgggacact 360
tggttcctcg agagtggaca acttattccg ttccgtgtg 399

<210> 2375
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D6

<400> 2375

agcccacgcg tccgctggaa tttctctgac tgttcttttt caagtttttc gtcgtattct 60
ggaaaggaca gtaatcgagg ttggttgata atgatatgtc cttctgccgt tgacgtggaa 120
gccatggaga aaatagtcga caaagagtcg ccattcttaa ataaagatgc tcgtccagtt 180
atactggtga atcccaatct agttgatatg ggagcaacag gtttaggctt caacgcaaga 240
cagctaagac aacgcttatt gagcacgttt gaatccatct acttccttcg agtgtattct 300
gccggagttg tggttcgtca gtatcccttt gagtggagta tttggttgga aataaccaac 360
gaagacgaaa atactttctc cgactct 387

<210> 2376
<211> 367
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D9

<400> 2376

acgcgtcagc ggacgcgtgg gccggacgcg tgggtttttac aagcaatggc accataagaa 60
cgtagcaaac catagagtcg ttcgtctaaa gcaggcctgc agtttcctgt tggaagagtg 120
agtcgttttc tcaaaaacgg taactatgcc gaacgagtat gagctggagc ccgattttat 180
ttggcagcag ttttggaata tctaaccggt gacaatcttt gaattggctg gaaatgcagc 240
acgtgctaata cagacgactc gacttggtcc tcgccacagt gaacatgcag tgccgaccga 300
ctaagacgtt gaataacgct gctctgtgga gtgactattg ccacgggagg tgttttacca 360

tacgttc

367

<210> 2377

<211> 405

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-E1

<400> 2377

aggagaaaag gctttgagaa atcggacttg tctttgctgc cttcgccag ttacaatatt 60
agtgtttcct gtcattgttt ggacttttcg agaaatgtca tgctttggaa gagaccaaga 120
caagcttggt tataagcctc gtgtaatttt aataactgga ggtgcagggt ttatcggttc 180
acacgtcgtc tcttattttgc tccgggaata tccggaatat ttaattataa actatgacaa 240
gttagattat tgtgcttcgt tgaaaaactt gagtgacgtt gccactatc caaactatcg 300
ttttgtcaag ggagacattt tatccgaaga tctcgtcagt tacgtgctcg aaagtcatag 360
cgtagatact gtcattcata tggctgctca aactcatgta gatgc 405

<210> 2378

<211> 382

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-E10

<400> 2378

ggttacaagt aggagacgaa gcacctgact ttgagttgaa agaccacgac ggtaatatag 60
ttaaattgag cgagttcaaa ggaaaatatt ctgtatcct attcttttat cgcaaggaca 120
agacgtatgg ctgcacacgt gaagcttgca gtttccgaga taagatgtcg gaatttaacg 180
aacttaatgc gaaagttttc ggtgtgagtt cggacagtgt agagtctcac aagtcgtttg 240
ccgatgaaca gaagttgacg tttcccttat tatctgatga atgcggtaaa gtactcaagc 300
tatacgcgtg tatcaaagag catgtttact atgcctggtc gctgcactta tgtcattggt 360
ccggatggta ttgtaccaca ca 382

<210> 2379

<211> 414

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-047-Q1-E1-E12

<400> 2379

cacgcgtcag gaaagaggca aatacgggaa agcagtaaaa gaagaaagag aaaggaaaaa 60
actgagtatc aggaagaaaa gagggagtag atgaggaaag aaagatcaag gaagtaaaag 120
gtaagaaaga ggaaagggtt acgagagaag gaagtagaaa gaagagagtg taaggcggcg 180
tcataataga aatccgaaag gagtagaaga aaagagagag aagaaagaaa agaagagaaa 240
agccgtactg aagaccgaca caggtactcg aggagaaagg agacccaaat taaggtgaga 300
gaatggacga taaggaacta ggcaaaagga tatggtatct gcggtagaac atatgaaaga 360
agcagcaccg actgttttagc anaaacacag cactctgcag aaaagagaaa atgt 414

<210> 2380

<211> 249

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-E2

<400> 2380

accacgcgt aagctagttc ttggtttcc aaaattggcc atttattatt gtctcaacat 60
gttttgtagt acaaagccaa ctggatatca atcacggtca ccgtgaaaga atccataaga 120
cactgtatac ttgtcgtccg ttattaacta cgaggtgaat cagtcttcat caagttgttc 180
ttccaatcgt tgaatcttct ccctaagcgg actacatag taataataac tagaagagtc 240
aaataaata 249

<210> 2381

<211> 407

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-047-Q1-E1-E5

<400> 2381

agcggacgcg tggggtgatt tccaccaagt cacaagaat cgtaaaagag aaaatgacga 60

taggttttgt acatccactt ggaactagtg ttcaatgtaa caaacactac aaaactgcta 120
 cttgttcttc ccagttttat tccaagtctt catcgtttct anggagaaac catggggggtt 180
 gcaagtcgtg gtctcttgcc tatggaagca aggtggatcg gaacaagtac acttacagtc 240
 atcctagttc cgtaaaacaa ggaagaggac caactatggt tgcttcgaaa acagagttgg 300
 aacaacaagt aagatccaga ctagtcaagt tgtttgagca gacaccttgc atgccccatca 360
 tggtgagact tgcttggcac gacgctggaa catatgatgc acagacg 407

<210> 2382
 <211> 165
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-047-Q1-E1-E8
 <400> 2382

gaccacagc gtacggacag tgcattccggc aacgccgtcc gcgtgacgca tctagatcac 60
 gacatcanca catgcaaata cggtaacagc gaacgggtgtg cctaataagag gtgtcaaagg 120
 agtgagaaca gcatcaacag cacagcatca atgtaacgaa atggt 165

<210> 2383
 <211> 410
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-047-Q1-E1-F2
 <400> 2383

ccacgcgtaa ggaaagcttg ggtccagatt cgattgagtt tatagtgaac cattccgaca 60
 tgcgttcttc ttgcatcagt tcagaaaacc tggataaagt tcttgggaat aaagacaagt 120
 ttcccaaact tgaaaagata gttttgatgg accgagaaaa cctgaatagt gatactctcc 180
 cagactatgt tttggatata cagaaactta tatctgatgg aaacgaatct gggcaagttc 240
 agccaggatc attggacgat attttcgtga tcatgtatac cagtggcact acgggggaaac 300
 cgaaaagagt tatgttacca aacaaagcat ttctttgtga agttgccggt atattaaagg 360
 ttactgatca ttatcacatt tcttttagaca atactgatgt aacaatgagc 410

<210> 2384
 <211> 427
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-047-Q1-E1-F3

<400> 2384

gacccacgcg tcagcaaaag gagtctactc cttcacttgg tccttacgtc tgaggggtgg 60
 aatgcagata ttcgtaaaga ctcttactgg gaagaccatt actcttgaag tggagccctc 120
 agatactatt gagaatgtca agtccaagat acaagacaag gaaggtattc cccagacca 180
 gcaacgtttg atttttgcag gtaaacagtt ggaagatggc cgtactctct cagactacaa 240
 cattcaaaag gagtctactc ttcacttggc cttacgtctg angggtggaa tgcagatatt 300
 cgtaaagact cttactggga agaccatcac tcttgaagtg gagccctcag atactattga 360
 aaatgtcaag tcgaagatac aagacaagga aggtatntcc cccagacagc aacgtttgat 420
 ttttgca 427

<210> 2385
 <211> 407
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-047-Q1-E1-F4

<400> 2385

acgcgtcagc ggacgcgtgg gcggacgcgt ggggtgcggat ttgggaagag tatggtgcag 60
 ttacaactat cttctcgta tcagactcaa gtacgatatg tgggtgaaag ttatctgaga 120
 gagaatccaa aacagaaaca tttactcgat agtcttaaag aagatacaat atcccaccaa 180
 aatttgtagc agataactcg tttggcgccc aaagatgctc ttccaccgtt ttggtnctt 240
 gtggcaagta gcacgtggaa actgccacct cccaagtgtc catatgacaa ttatcaacgt 300
 cctgcaatac tagacaaaag actagaagct cttcgtgagc gtcattgaaag aaagcagtat 360
 agggaaactaa tacaggactt acctagtctt gcgccaagcg aaacatc 407

<210> 2386
 <211> 416

<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-F5

<400> 2386

gacccacgac gtcaggttgt ggagtaagtg cgcttggcag caaactaaaa gatggcaaga 60
agaatcatcg gagcttatat gtctgacgct actgtagcgt ctctatttag cgtgaaaatg 120
ttgtttctacc ttacaatact tgcgttctct atcactattg tgggtcttat gggtaagagt 180
tccgacggta tttgggttca cagtgttcca gcgaaagacg aatattgtgc atacaagtct 240
tcccttcaag taaaccacca cggcatagct tcctattgca agtatatcat ggctgtagca 300
gctattgggtt tggttatcag cttcttcgag ttttggtatg cattcctcgg aattttcttc 360
aagtggcaac aaaagttgtg gtatattgaa tctgctatca acgtgttttt ctgggc 416

<210> 2387
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-G1

<400> 2387

agcgatgatt cgatgcggca caagacagtt gtgggtggcaa ctgcgcgctc gttatcatac 60
aactactact gtccatagag tagcagcaga cgaagaaaag gaatctgtcg gtataaagcc 120
taaacgtttg catcagcctc ttggagttaa tccacaagga accaatctgg aagaagtgag 180
agaaaagtgg caaagtgacg ctatggaact tatctcgaaa gtacctccga tagtagtcga 240
tggtatgtc atagcgtgta atggaggccg cgggccatta ggacatccaa tagaatatat 300
tcgtttggaa gcaccttata cttcaacttg caaatattgt ggtttgcat atatcaacaa 360
agacactttt gaaaagtgga aaaaagaaaa taacgaataa taaaatggaa aga 413

<210> 2388
<211> 228
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-G10

<400> 2388

aggcccatTT tacatccgac aatttcagag aaccctgcta tgaaaacaca actggcatac 60
agagacgcca tgTTcaacag cttacggatg gcgaccacaa tgcaggatgt tcacgggacc 120
agaataacaa ggacgccact agcagtttct tggccattca cggTggccca cccgTTTTga 180
ccagacttcg caagagaata tcggataatc atcacacttc gcgcttcc 228

<210> 2389
<211> 94
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-G11
<400> 2389

aaagacaatg aaaagaagga taaggaaaaa taagggaagg tggaattgga taggaaagga 60
ttattccac ttcttaggaa ggacgttact ggat 94

<210> 2390
<211> 398
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-047-Q1-E1-G2
<400> 2390

gacccacgcg tacgggaatg gcggttttcg aggtcgagct tcccctggcg gacgtTTTTT 60
tcgtgaagca aacaacaaca acaacaacaa ctatcggtcg cgcaatgctt acagtgaaac 120
cccatcacia cttgttgaaa tgggtatttt tcaacatccc tgcgagaacg aactagtttg 180
taagagtacc aacgaaaaga tcccgttttt taacgctcca atatttctgg aaaacaagac 240
gcagattggc aaagtggagg aaatatttgg tcctattaca gacgttcact ttactgtaaa 300
accagtggaa ggtgtattag ctacttcttt tgggttanga gacaaattct acatcggtc 360
agagaaactg ctgccgcttg aaagatttct tcccaagc 398

<210> 2391
<211> 408
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-047-Q1-E1-G3

<400> 2391

agcaaaagga cataagattt aaacggcagc atggaggaag aaactggtac ggaacaacct 60
gaaacacaaa cagcagggga aactgcacaa gaacaaacag acagtccggc agtagaaaca 120
gagacctttt cgaatcaata tctagagcag cttatcttgt cgtacttgaa acaccaatgt 180
ttttcaaaaa ctgccgagtc ttttgcgaga gagattgctg ttgaagatac agtggagaa 240
ggttcagcgg aaaccagtga aaaggagact tccattgagt gccttcctaaa gcaaatacaa 300
gtgctggaca aacatgaact ggaactgtta gatttgacga agacggtatg gcaactcata 360
aagaaaggag agtgtttgcc aggtttggac tgggcanacg tgggtactg 408

<210> 2392
<211> 345
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-G4

<400> 2392

ccacgcgtca ggagaacgac agtagcgatg ggattgttta gtagactgtt tgtgaaaccg 60
agtcgtgtac cgcaaagagt cgtagagttt caaaagcgca aggcggaagg ctactttaca 120
tacaacgccg ggaagtacga ccgatacatc aacacaccta tttacctgtt tgtgtccttc 180
accggtcttt atgcctttat tgacggttgt ctttgggcgg caggaaagaa ggaaagtcaa 240
tcgtgaatag cgttttttgt ccttgtggac agtcttatga actagtgatt cgtttgttct 300
gccagtttta gtttcttgta atgaaagttt ctttttttct cttgc 345

<210> 2393
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-G7

<400> 2393

agcggacgcg tgggccacgg gaccggttat tgttgcagct ggaggttgcg atgtatttgt 60
ttcacgagtt ggcacacgaa gtactattac tggtagaggg acatatttat aggagaacag 120

tccatcggtc catattgtgg cagtacaacc gaccgaatct cctgttttat cgggaggcaa 180
 atctggacct cacaagattc aacgaatatg tgcaggattt ataccgata tattggatac 240
 cagcatatac agtgaactac tccaagttag ttcagccgat actatcgga tggcacgaag 300
 gatggcaacc gatgaaggtt tattggtacg aatatcttct ggagctgcag tttatgcttc 360
 cattgctatt ggaaag 376

<210> 2394
 <211> 421
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-047-Q1-E1-H10
 <400> 2394

cacgcgtcag ctcaacgacg taatgagact cactcatttt ctcgttggtt tgtcttttgt 60
 agctgttttc ctcgtagctc atgcagttcc cggtggagaa gatgcattca gtttcagtca 120
 gacttttgga aatgcttctg cttcaggcaa cgcctctggt attccagcta caaccaagat 180
 cccaagtta gaagtaacta gtagtgcctc atcaaaggac aatggaaaag cagctcaagt 240
 agactttgca gattactcaa agggatatcc ttgcctagc tatttttacg ctccttctta 300
 cacatcctat gtggaatttc ctcaatatcc atcctatcca tcatggcctt cttttaatga 360
 gcagcctgcc tttggtggct tcgattccaa tgcagagttt ggaaagtctg aaattttcgt 420
 g 421

<210> 2395
 <211> 389
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-047-Q1-E1-H12
 <400> 2395

ccaagcgtcc ggtggtggtg atgccttgga ttgagctacg tagtggcaac tccgctgtct 60
 tgaaagacat aactgcaagt attgaaaagc ctgacataaa atggataact aggacgaatc 120
 tcagtacttg tctgaattct gcagaaggaa atgttacggt tgacttgtcg cggcagtgtg 180
 gcttgaagga tatattttca ttgaagcttc tcgacaataa ctttaagttg gcgtgtttta 240

atgatgcctt gtttttagtt ttaccaggct tatectttgt tattactggt aatcgatat 300
tctgtagacg ctcggaacttg aatgaaacgg aagcattgga gtcctgcttt tcgtttatga 360
agatatgccc cacgtacaag tcgttgag 389

<210> 2396
<211> 411
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-047-Q1-E1-H2
<400> 2396

gccccggcca cgcgtaaggc tacgcatgtc gtcgaacggc ccgtaccgct taagaagagc 60
tcaaagggaa gatgtcgaaa acattttatt tctgataaag cagttggcag aatatgaaaa 120
agaaccagaa tctgttcaaa taaatgagaa agatcttgaa agagatgggt tcgatacgca 180
gcctcctcta ttttacgtcg ttattgccga agtttcggtt aggaacagaa tgtttgga 240
tgtgtagggt ttgcgttatg gttttatgtg tattcgactg gagagcgctt catttggaag 300
atcttttcgt gctaccacaa tatcgcggtc aaggaatang caaagctttg ttaagatatt 360
gtgctgaggt tgcccttgct gaaaagtgtg agagatatca atggaacgtc t 411

<210> 2397
<211> 390
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-H3
<400> 2397

agcaaagca acaacaggag acaaagtcaa tgaaatttca ttaccacatg atacaatgga 60
tgtctacggc atacgaggac tcttaaagtt aatgtcgcca agctggagaa cggaacaacc 120
cgattatttg ctacttacac ttggaataga cttgacaagc ctaggactta acttgaattc 180
tacggagccc ttgtatttat ctttgaaac tccgtttctt gatatgaacc gaggtctcta 240
tcatgaacca gaatatagtc ttccggaatg ttacaaaatg gaacaaaagc cgccattatt 300
gaaattgggt catttttagga agtttcaatt gcaaacatta ttttatatat tttattgtat 360

gcctcgagat gcattacaga tacttgcagc

390

<210> 2398
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-047-Q1-E1-H4

<400> 2398

cgtaagggga cagngtgtgt ttgtgtgatt gggttggtata aaggcgcta ttttcaaaga 60
gtccaaccta gtgagaaaac atgaatccgg aatatgacta ctttttcaag ttgttgctga 120
taggcgactc tggagtggga aagtcttgcc tcttggtgcg ttttgccgac gacacttaca 180
acgagagtta tatatcgacg attggagtag actttaaaat tcgcacgata gaactggatg 240
gaaagaccgt caagcttcaa atatgggata ccgctggaca agaacgtttc cgcactatca 300
cttcttcata ctatcgaggt gcacacggca tcattattgt gtatgacgtt accgaccaag 360
aatcgttcaa caatgtcaag aactggttgc acgaaattga tagatatgc 409

<210> 2399
<211> 375
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-H5

<400> 2399

agcggtttatt ggaagacttg cctcctccaa aactggcact taatggcgct ggcggtccaa 60
cagcaactga acttgacgt ttgcttggaagggtggcac tatggtaact tatggaaatg 120
cttcgggaa accatttagt attcctacta gtctatttac aacacaagat atttcactga 180
aaggattctc gatgcttaat tgggttaaagt ccaagtcaga gcaagatgtg aagaaaatgt 240
tgcaaagtgt cacacaaatg atggaaaagg accagttgaa gttttggatc gaaaggaaaa 300
agttggaaca actcgaaaca acattagaag cgtaaccac aaaagaacct caacaggaaa 360
gaagaatagt tttag 375

<210> 2400
<211> 357

<212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-H7

<400> 2400

gacccacacg taagggagga gaatggtgac caccacacag tgcggcattt tgccaagttt 60
 cgtttcaagt ggtttccaag tacagcttgc caaacagtta tcttctgtta ttcattcatg 120
 aaatacatgt ctatggagaa aatgttattc gcaaaaggtc gctcgtgttc gttccatacc 180
 aacatctata gttgcaagtt acaactacag catatttcac gacgaccata atcgttcgac 240
 agtaaaagta gattcacgag aatcagccta caacttaaata aagccgttgg gtttggtatt 300
 ggaagaatca gaagatggaa cggtagctgt agctgatata gattctccag ggaatgc 357

<210> 2401
 <211> 179
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-H8

<400> 2401

cgacccaagc gtacgggagc aagcttggaa gtcgccgcag tatatcagag attgtcacat 60
 gtcaagtccg taaagcaagt ggggtcgtga agctgtgtgg aagagtgccca cattgtgact 120
 gcgaagaagt ctgtacgaga tagttcgact gtggggcata ttggagcttg tagcgggaa 179

<210> 2402
 <211> 290
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-A1

<400> 2402

cccacgcgtc cgccccacgcg tccgcccacg cgtccgcgga cgcgtgggct tggaactaag 60
 gaaaagatgg atgcaacaga acaatatatc agaagaaagg aacgatagtg ctgaggacgt 120
 cagctcaaac tcatttgctt gtgttgcgag tgcagtttcc tcgaaattca tccaaactat 180
 ggctgagaag gaagggtttc aatttcgtga aacattaaca ggtttttaaat gggtgagtca 240
 tgccgcttta aaactggagc aacaaaattg tcaactttta ttagcatacg 290

<210> 2403
 <211> 332
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-A11

<400> 2403

cgcggtggg gacgcgtggg gcgatatgca ctcgctcgga acgggtatatt gttttgtgtg 60
 ttgtagata ctttgatgta gaatagttga caagaaagaa gaaataggat gaacaagaga 120
 tatacgaata tagggacaac tgatgctcaa ggcaccagt atgtgtatgt ttatctgaat 180
 ttgccacttt tacttccatt tctttagat atatatatat gtgtgtgtgt gtctgtacta 240
 attttgact aaggacatgg tttctagggt ttattgcaaa aaagttgaat agtaactcgt 300
 tctatatggt tcgttgagta atgtctagag ac 332

<210> 2404
 <211> 431
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-A12

<400> 2404

tgaaaaacga acgagtcctt tcggtagtaa ctttgaagaa tctgaagctg cgtaattgcg 60
 cgaacggtca cgtcacttgt atgaaaagta ctagctcaag gttacaactc gagcaaaaca 120
 atactgcaat tcacttggtc gatccattgc ttgcaagcaa cttaacgagt caaacagcga 180
 ctcgaagaga caccaacgtt actattcttg caagattagg tatcgctag tgcaacaaga 240
 tacgtatata ttggtatatt tgcaatttta tttcgcttca aaagatgcta tatttactta 300
 caagaacaaa gtcacttcac tgagtgtctt tgatgcaacc gtcgttgctt ttatgacagg 360
 cagagttcta agtatccaat gatacattct aaacaactat tgttgtatgt aacaaaaaag 420
 agtttacgct c 431

<210> 2405
 <211> 380
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-A3

<400> 2405

gtccgtgtca tctcatgact tgccttgtcc tctggtggag attatccgca aagtgggtgca 60
tgaaagggat ggaacgaaga tgatagaaat gttggcttcg tttccttcca gtcattgggg 120
aagtcttcga atgaatgctt ccgttgtttc ctggctcactt tccgacaaag ttcccaagtc 180
cttttcggat ggaactcgat tccttcgcca tattggaagt ttgaatgaaa ccacatttcg 240
tattgtattg aatacgacga tggacgaatc ttttgccgta gatatgactt ctacttattt 300
tgggccttcc tatgaaacgc tagaaatcat tcgacgtctt cctgattgga cagatgcagt 360
tacttttcag actagtggag 380

<210> 2406

<211> 424

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-A7

<400> 2406

aaccttcacc tgggtgcttg caagacgcga gtagttccaa ttctgataaa gaaggtctcc 60
atattggccc aaactgtcaa cttgtagttt gttctgttga taacttgaaa gacttcttgg 120
gtcagcaagt ttatgaacaa ctccagaaag tatactcgga taatgaaagc gttttgatga 180
agttggatcc tctcgcgaag ttgttgggaa gaaatcttga acgattatgg aggagcgatg 240
ttcctatggt gcccgaaact tcccagatgg atattgtttc caccagaact gatacagacg 300
agatgcaagt aacagagcgt aaaggagttg tctcagtgcg acaaggccag tttgattgga 360
tggagttctt gaaaacatat tgtgatttga cagagtctga agcaagagaa tctagttatc 420
gact 424

<210> 2407

<211> 325

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-048-Q1-E1-A9

<400> 2407

aaggacgcgt ggggtactcc tcgaaagcta tataagtagc gtatgcagga aagaagaagg 60
taaaggaaga gaaggaagaa gcagagaggg actatgagcg agaaggtgga tagtcgagag 120
ggaaaaagcc cagaagccaa gataaggtat caaagtaaag aaagaaggaa aaggagaaga 180
agagagggta agcttataag cagcaaacca gagaggaaag cgttaaagca tgaaagaaaa 240
gaaatccgaa aaagaagaga aaaaggttaag aaagaagacc gaatcaaggt aagangtana 300
ggatcaagaa gagaagagag aatgc 325

<210> 2408

<211> 186

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-B1

<400> 2408

acgcgtccaa aatgtagtca ctcgtggctc attaacaacc actttccggt agactatcga 60
gaacatgcgc ctatctaacc ttctgacttg tccctctgtc ttgcgaagaa tcctgaccag 120
ccttttattt tacgtctttc atattttcat ccgttattgt acattatctg cattttggat 180
ttggat 186

<210> 2409

<211> 261

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-B10

<400> 2409

gcgtccacat ttgagtgttt tgggtactgg gctgaatata cttctcctgc actatgtctg 60
cgaatattcg aataaagtaa ccaagtatgc aatggttttg gaatttccgg ggcggccttg 120
caaccttcgg aatccgtgga accggttggc caccgggaat tctgttcaaa ccgttcacaa 180
ggatttaaga acacctacgt tgggaaagga tgcactttaa aatcccgtgg gtacagagac 240
ctgtcctaata tgatataaga a 261

<210> 2410

<211> 119
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-048-Q1-E1-B3

 <400> 2410

 ccgttccgct ctgtttccag tctctcagtt cttatgtcac cgggactgct ctctgtcacc 60
 ctttatcgca gaatacggat tacctcagtt tgcaaaacag tccgttttcc cgggtctta 119

<210> 2411
 <211> 410
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-048-Q1-E1-B7

 <400> 2411

 attggaattt ggtttccttt tggacattta gaacgcgcct ttcgtaccga ttggccgata 60
 caaggtcac cctatactta tggatattct agtttgagat atgcaagtca atgttccagt 120
 ggaacttttc gtcaacagtt tgcaaggcat aagttgggag ggctacatat atccaattat 180
 tgcttccttc cctttgttat cttaaaggaa ctaacaggaa cggaatatgg aaacgaaact 240
 cttcaaaata tgacaaagga acagtgtcaa caacttgtcc acgactgccca aggccactct 300
 tttggaagaa ctgttccttt agaccaagtc ccagaagaag acttggatgc agtgtatatt 360
 ccttggtttg tcaagtgtaa ccctaaaaga tatccatcgt tgatgcatca 410

<210> 2412
 <211> 350
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-048-Q1-E1-B9

 <400> 2412

 ttggagcatt tctgcaacat ccctcgagag agaaatgtat aaggacggcc tctacgctaa 60
 cagtcataga cagagctctt actaaggcaa attgagaatt ccaaactgga tagagctcca 120
 tgttttggaa tagagcacag cccttactct cctcattggg tacacaatag aatctttcct 180
 tattcagata gaaattttgc taagtgcacg atacaacaag tgaagttcgc gaatttccgg 240

ctctaattcc atctctacat tttctgtaca ggggtggataa ctagaagctg tcttcattcg 300
ccatgaagtg tccactatgt cacgtaacta tctatttgag tgattcggat 350

<210> 2413
<211> 169
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-C1

<400> 2413

gacgacgcgt ccgaccacgc atccgcgatt gcctgccttc tctcgacact cgttggtttg 60
tcctttgaaa acacgtttta gagtcattcc aatggctgca gtaaccttta agagacagaa 120
gactgacgta cctgggtattc tacattgaga aaatgctctc aacagcttt 169

<210> 2414
<211> 179
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-C11

<400> 2414

ggacaagagc gaagtgagtc cagctttgaa tgtgctttat gaacactatg aacacgctgt 60
gcctgattct ggccgatcag caaatccgcc tgacgggttt ctccagttca agtcagagct 120
gttggatagt actggtgata tgctacttgg gtaagctgtt gtttatgtct attttcatg 179

<210> 2415
<211> 342
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-C12

<400> 2415

actgaggaga cataagatgg aataaaaaaac caactatttg cacaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa ataaaaaaaa aaattgaaaa gaaacaacaa aattaaaaaaaa aagggaggac 120
gcacccaaaag tttccaagct tacttaaacg tgctggccaa cttaatgctc ttcgaaaatg 180
tgaccctaaa tttcattcat tggccttttc ttttaactcc ccgggttttg gataactcgg 240

gctttatcta atttaccgg cttggaacac atctgccttt cccaactgt cttttttttt 300
aacaagtccc cattttttcc tcttcccaag aatttttcag cc 342

<210> 2416
<211> 416
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-048-Q1-E1-C3
<400> 2416

taattggaac aaggtttgaa cgccttaaaa aacaaacctt accaattaac ccaccaaaaa 60
agggtaccgg aaataagtcc cccaaggga aattaaat cctaattaac caataaaacc 120
caaggtctca aggaatttca aaagtttttt aaccanactc cgaaactcgg taagccgaac 180
tttgaagaaa accaactccc tatggagaaa atgttgtctg tccaacgatt ggccgcttcc 240
caagctattt gagagacatt tcgtaattct gccagaatt tcgggttaaa atccttggaa 300
aaaatccatt ggtcctttta cttccccaat ttgaaatcca agtgcgttaa tttgccaaat 360
taattgtgtc ctctcctcct agaccctgtt atttagtaga atagatatag taatac 416

<210> 2417
<211> 369
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-048-Q1-E1-C5
<400> 2417

actcacaagt ccagagaaat gttcagatat tagaggtgtc aagataccaa acttttctgt 60
gcggtttata aaaaagtagt ttcgtgagaa aacgcaagag acacctaata ttagtagaag 120
accttgtaat gtttcggttt ccaagcgagt ctgaagttac cggcgaaaca acagattctc 180
ctagcttaca agtgtcttct cacggaacgc cttcgaccct tcatagtctc ccggaatctt 240
cttatcatga gtattacgtg aagcataagt attcactgta tagaacggga ctgggtcgaa 300
aacacttgtc agatcccaat tcgactcatc aatcttcacg ggttggagct tatatacatg 360
ggagccacg 369

<210> 2418
 <211> 313
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-048-Q1-E1-C8

 <400> 2418

 ggtcgaccca cacgtccacc cacgcgtccg cccacgcgtc cgcccacgcg tccgattttg 60
 tgttgttgtg tagtgatgga tagggactgg ggtgcaaaga caggaggtgg aggagttgcc 120
 tccaaagaac aaacagatat ctcaagaaga gaaaggttgc gtcaacttgc tttggaaacg 180
 atagacttga aaaaggaccc ctattttatg cgcaatcact tgggaggcta tgaatgcaaa 240
 ctgtgtctaa ctttacacac taacgaacga aattatttgg cacatacgca aggaagaaga 300
 catcagatga acc 313

<210> 2419
 <211> 113
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-048-Q1-E1-C9

 <400> 2419

 gacgacgcgt ccgaccacgc atccgcccac gcgtccgcct tggcatcgag aagcgatgaa 60
 gggcgtggct accatcgata tgcttcgagg agctggaagc gggctttgat ccg 113

<210> 2420
 <211> 401
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-048-Q1-E1-D10

 <400> 2420

 tcgggaaacg gtaacaaaat ggtaataact tcggaaaagg aaaaaacaat tggccccaaa 60
 attctcccc caaattcttt cgtaaggcgc aatcctaagg gaaatatggg cgggtgttgc 120
 gcggagtatc aagtgcctac taagcaagtg gtgagcttgg gacatcncga agcactggga 180
 ttggctgggt ttgctgcaac cgactttatg ttgagttgta tcaacgcaaa gttgttacct 240

agcagtatga caaatagtat tatcgactt ggtttctttt atggaggttc tgcgcagctt 300
attgccggta ttatgacctt tgtaaagcag aatacgtttg gtggagttgc attttcaagc 360
tacggtgcct tttggttaac ttttggagtt cttataacat t 401

<210> 2421
<211> 313
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-D12

<400> 2421

tggcggttca caaatgtttc gctcaaggag tactccatat atttatcgat ggcgtcctgt 60
aactgttact cattcagctg accacaaaga tggccttaag gattctttga gaaccactca 120
aatctttcga aattcagaaa cttatcgtaa caaggacgac atgctgaaag ttgaagttat 180
acccacact ggcctaccag gtggaaagca tagacctcgt gcctctcctt gttcagctat 240
ggagaatgtg atgaacaaca ataatgactg gacttgtact gctaggaatg cttcattcga 300
gatgcatagt gtc 313

<210> 2422
<211> 138
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-D4

<400> 2422

acgcgtccga ttccgagttc gcatgcacct agtcgtcgtc cttgtgattg cagtattccg 60
aattcttttc agagatactg tgatcgatcat gtatgtgctt gcctatcag ctgttacatc 120
acatccaagt atgggatt 138

<210> 2423
<211> 400
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-D8

<400> 2423

cccacgcgtc cgcccacgcg tccgcgttgg taagcaaaca tgggagccta caagtatatg 60
caagaattgt ggagaaaaaa gcaatctgac gttatgcgtt ttttactccg cgtccgtgct 120
tgggaatatc gacacttgcc ttcggttcac cgagcttctc gtcccactcg tcccgacaag 180
gcaagaatgc ttggctacaa agcaaagcaa gggtatgtaa tctacagagt gagagtcctg 240
agaggtggta ggaagagacc agttccaaag ggtatccaat atggcaaacc taagaatcag 300
ggatcacac aactaaaatt caagagacat aagagatcag ttgcagaaga ccgagctgga 360
agaaggtgcg gaaacttgag agtcttaaac tcgtattgga 400

<210> 2424
<211> 341
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-048-Q1-E1-E10
<400> 2424

cgtccaattc aatatcttta aatgagctac ctaaaagggg atcaaaaaaa ggcttccttt 60
gtggcctcgc gtggttcag tttgttctt tgggatattt gtttaatttt gatcactaca 120
agtgaaaact actcttcgac agagaaactc cctactataa ttcttggtta aataaaacta 180
tttattccta cacttcttta taaaaaaaa atcaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaagaagaaa acaaaaaaaaa aaaaaaaatt aaaaagaact tatctgtaaa atctcaaacc 300
ttctaaaatg ttacctcaaa agatattcac ttgaccaacc t 341

<210> 2425
<211> 192
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-048-Q1-E1-E11
<400> 2425

gtccaaccac gagtccggca taaacttggg acagagtctt ggaacttggg cttcctatag 60
ttgcacacgt agtacctgta tgctcacttg ctgctttgat cttattccgt tcacccttga 120
tgagagttgc tctttcgagt tttggatgcc tattaagggt cttcctcact tacatttacc 180
cactcctgca ct 192

<210> 2426
 <211> 424
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-E12

<400> 2426

```
ccgcccacgc gtccgcccac gcgtccgccc acgcgtccgc ccacgcgtcc gcttgacaag   60
gacaaacggt ctttagcttc tacttggtgt cacatcttgt ctattttatt tgcgtttgac  120
gcaacctacg agttggaacc tttggatttg gtgattcagc agtgctccta cgtggcagac  180
tggttgagta gtaacttggt ggacaatgag tcaactccgg aagacttccg tcttgccggt  240
ttgtcttcgt tgtgtcagtt cgttcgacat gacagaccaa gacttgcttt tgctcgaaa  300
gataacataa agaatctgtc ttatgtattg gaaaataaca agcaagagcc tgtttcaatt  360
atttataaga caatctttgt gttttggatg ttatcttatg cacacagtgc tgaggcaaaa  420
cagt                                              424
```

<210> 2427
 <211> 363
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-E2

<400> 2427

```
gtccgactgt gaggtggcat acggagtggg attggcatat gttaaccagc acgttccgac   60
gtggttgga ttccacgact tgcggaaagc tttgggtgaa gcacgcatta tgtagtctc  120
cgttttctac tgtcacaggt ggagatgtag ttgtaaatcg acatcgactt atctgcagct  180
gcaagtgagc agattgctcg taatggaaca ccatggatgg tgagattccc gtttatctcg  240
tttctttgta tggaagctgc gctacgatag ttcttggtgt ggagtctagt tgtttggtac  300
tacagcctta attttgtggg tgttacaact catcctaggc tatatacgta aagttagacc  360
gat                                              363
```

<210> 2428
 <211> 69
 <212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-E3

<400> 2428

cttttggttcc cgcattgcgtt aagtttgagt ctgtgaaaaa gttgcacgga tggaactaca 60
gttttaatt 69

<210> 2429

<211> 380

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-E5

<400> 2429

atcttttacga gaatccttct tatgtctcac cgaatcaagt tcgaagatcc ctgaaacttc 60
aacaagccta caaacggagg ttgaagttga agcgggaagga agctcagaag actcgagtgg 120
aagagaataa gcttttatct gatcccggtg aagatatgtt tcgttcctaa tggttatagct 180
gtagactttg tgtgtccaat acacctaact ctatagagct gtaaaaacaa atagcgtttg 240
caactaaaaa tgtaaaaact acaaaaataat aaaaaaaaaa tcaatgaaaa gtaaaaaaca 300
aataaaaaat aaagtaaaaa aaatggagag tcctaactgt aaggatccaa aggtaaacaa 360
aaaaaaaggg gcggccctca 380

<210> 2430

<211> 407

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-E8

<400> 2430

acattccgta cggtgtttgc tgctctcgta tttcatcaat tctttgaagg atttgctgtc 60
ggtactactg tttccgaagc ccagtttggc acttggaacca ctatagtaat ggtactttgc 120
tattcttttg aaactccaat cggtatatct attggtattg gtattgcaca cacttatcag 180
gaaaactcct cggcatcttt gttaacgaga ggcatttttg atgcatctc cggtggaatt 240
ttaatatata caggattggt ggagttgttg acttattggt ttacgcgcaa ctcgaacttt 300

ttaagacgca aagccatacc tatttttagt attgtgggat ttgtctggtt aggagccatc 360
 tgcattggcga ttatccgagc ctgggcctaa gaataaaatt gtttgag 407

<210> 2431
 <211> 286
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-F3

<400> 2431

cgtccgattt caacaaactg gaagctactt tgttctatgc caacagtttt catccttggt 60
 tattggaaca cttgaacaac tgtcagacaa caagttgtgt cccagagta tctctagtca 120
 agaccgcgcg gaaaaaacac ttcgcagcaa caagtaccgg ttctaaagct aatctgaaag 180
 aagaagcagt agagactaac acaagatggg acgctccgcc tggcaattgg gaagagcacc 240
 cgagtcgctc aggttccaca ttttccgaga taaagttgcc aaagca 286

<210> 2432
 <211> 212
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-F4

<400> 2432

cgacgcgtcc gcgagcaggt gggagagtat gaggatgttc catatgccac ttctacacct 60
 tatccatcgg tatctccaag ttatactcct tcagcatatc aaacaacttc tgcttattaa 120
 agagccgaag actggataga tttttgaagt gtctcgtgtt caaagaaaac atgagacatg 180
 aagcacacag tataggattt ggtttttacc cg 212

<210> 2433
 <211> 432
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-G10

<400> 2433

gaccgacgcg tccgagaaaa tatcaagtcg aagatacaag acaaggaagg tattccccca 60

gaccagcaac gtttgatttt tgcaggtaaa cagttggaag atggtcgtac tctctcagac 120
tacaacattc aaaaggagtc tactcttcac ttggtcttac gtctgagggg tggaatgcag 180
atattcgtaa agactcttac tgggaagacc atcactcttg aagtggagcc ctacagatact 240
attgaaaatg tcaagtcgaa gatacaagac aaggaaggta ttccccaga ccagcaacgt 300
ttgatttttg caggtaaaca gttggaagat ggtcgactc tctcagacta caacattcaa 360
taggagtcta ctcttcactt ggtgttgctt ttgagatgtg gctgttaatg agttttatct 420
gaagttgttt tt 432

<210> 2434
<211> 451
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-048-Q1-E1-G12
<400> 2434

accggtccga ccacgcatcc gatcacgagc agtttcatca caagaaaata cagattccac 60
gcttatatcg aaagaagtat tagaatctca aatcatggaa atgctagaaa gagagaacta 120
tgaaggagca tttctcttgg ctctcggagc tagtaatttg gacgtcgtag aatggctatg 180
tgagaagttg gattgccatg aattgtttca atctgatgag cctcccttgt cacaagtaac 240
attgctatct cttattcagc agttaggggt tgaccttgaa agaaaaacag aaatgaaaat 300
ggaatggctg aaagaagccg tcatgttatt ggagccttca gatgaaatga ttcaagacta 360
tttttcagat attttgtcaa tgttgggtgca gaacttggaa catcttctag aagctgggtt 420
gaataattct cgactttcag ttcatttgca g 451

<210> 2435
<211> 376
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-048-Q1-E1-G7
<400> 2435

agtcgtctgt gcgtccgatt cactgcggac tgtctttcct ctttgtctct cgttatgcga 60
tacttgact cttcagaata tgtcaagata ccacaaggag tatcgggtgga agttcactct 120

agaaaagtaa gagtaaaggg tcctcgtggt gtttttagtaa aggatctttc tcacgtcaat 180
 atggaaatga cgaaagaaaa gtccggtaag agagttcgtg tgactgtatg gcatggctct 240
 cgaaaagatt tggcttgtct caacacagtt tgcacgcata ttaaaaatat gatcaccggg 300
 gtaaccaagg gctatcgata caaaatgcgc ttggtatatg cacactttcc tatcaacggt 360
 actgtgtctg ataatg 376

<210> 2436
 <211> 356
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-048-Q1-E1-G9
 <400> 2436

gcgtccggtt gacagagtgt gttgataagt gtgagtatat taagtgagta taggaaggag 60
 aaggggaagtc aggagcagtt gttgataatg gaagggatac tgtagagtt gtttagtgta 120
 agagacataa tacgatttta tataagttat aagggagtgg agtgagataa ggatggacga 180
 ggagatggta atgataatag catgtatggt agtccattgg agcaatttga agtggtatcg 240
 ctgtataaga tggagataga aggaagggaa atagggataa gtaacatagg agtgtatata 300
 ataatgatga gtatagtatg ggtaaagaac atgaggaaga aagaggcata tacggg 356

<210> 2437
 <211> 449
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-048-Q1-E1-H10
 <400> 2437

accgtccaa gtcgtatgac gttggtgcct cattaagcca tcgttgaact acatctttta 60
 tctctttag cacaaacaca aattaaagaa caatgcgtga ggttatttct ctacatattg 120
 gtcaagcagg tgttcaagta gaaactctt gctgggaact ctattgttta gagcatgggtg 180
 tcaacgctga tggaaccatt gataaaaagg gaaacacagc atacgaagaa gcttttggtg 240
 ccttctttac ccagacaagc tcgggacgat atgttcctcg ttgtgtattt gtcgacttgg 300
 aaccttctgt cgtagatgaa gtccgtacag gtgcctaccg ccactcttat catccagaac 360

aacttatttc cggcaaataa gatgctgcaa acaagtatgc aagacgacat tatactattg 420
gaaatgaaat agtcgacctt actttggag 449

<210> 2438
<211> 426
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-H12

<400> 2438

ggaagacacg ccagttacaa tcctctcaat ctatcgggtga cggatgattt cacctttcca 60
tataaacaag tgagctatat actgcaagat cacggcagca atggagaaga tgaagaagaa 120
tcgcagcttt tttcgtcttt cggggtagca gagcctcctt tattttccat gtcgttgcca 180
gtagtcacaa ctgctactag tgcgttggaag agcgcgggtga tgcaagaaat acttcgacaa 240
gaaagttttc atctgcgtgc aagtgaccca acgataagcg atgaattatt tcaatccata 300
gttactcgag aaaagagatg gagtaggcgt ctatggagaa actttcgacg acaagtttat 360
gagagacgtt gtcgaataga agaagcagtc gttccggttg ttgctcatag tgctgcgatg 420
catctt 426

<210> 2439
<211> 335
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-H2

<400> 2439

acgcgtccgc ccacgagtc gctagtcgac gagaaacaga ttcacttatg tattttgcca 60
ttttggtgat tggtgttact tatggataac caaaaacaac acaaccatta ctcttgttgt 120
tgctgcaatg ctcaccacaa ccaaccaacg acagcgagtc gttgcaacgg atgttacgtg 180
acgaatatc ttgtgaagag tgtgttgga ctttggacg agctgaatcg ttgtctgttg 240
cgagttcaag agttgttgtt gttggacaag gaacacgagt gaatgaatgg tgcggcaagt 300
taggagaatg ccacaatacg gagacgtgga tatat 335

<210> 2440

<211> 281
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-048-Q1-E1-H4

 <400> 2440

 catcagacgt cgaatggggtt tctggacccg cttacttagg gaaacgaaaa gagagcataa 60
 tttcagcaac acacgggtta acttaacgtt accttttgcg ctatcagacc gtagtatata 120
 tgccaaggct ttggagtctt tttattatgt ctattccacc gttgaagaag agtttgaccg 180
 tcaaagaaga aattttccca aaataggggc gctttacttt gaagagctgc gaaggaaaaa 240
 ggtatctcta gaacaaaacg tgctttttca atactaaaac t 281

<210> 2441
 <211> 367
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-048-Q1-E1-H5

 <400> 2441

 cccacgcgtc cgatcaaagc tagtgatagc tgggtactcct cgaaagctat ataagtagcg 60
 tatgcaggaa agaagaaggt aaaggaagag aaggaagaag cagagagggga ctatgagcga 120
 gaaggtggat agtcgagagg gaaaaagccc agaagccaag ataaggatc aaagtaaaga 180
 aagaaggaaa aggagaagaa gagagggtag gcttagaagc agcaaaccag agaggaaagc 240
 gttaaagcat gaaagaaaag aaatccgaaa aagaagagaa aaaggtaaga aagaggaccg 300
 aatcagggta agaggtanag gagcaagaag agaagagaga atgctgggtg gagtagcgaa 360
 acaagag 367

<210> 2442
 <211> 316
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-048-Q1-E1-H8

 <400> 2442

 aacctcaagt ggatcatccc acgttggttaa agatagactt gtctcaaggc agctttaag 60

tactccaaga ctgtgacaga gatttagaat gtgatcataa taccaagttt cagttggaac 120
 ttattcagta tggctctctt tcacctggtt ttggacgag agaaaatgtt ctgctcttct 180
 atttgagct cgtgtcaggt gtattcataa aggacactct ctaccttttc caaaacaaaa 240
 ggtaaagaac atttgtttgc gagtttaatg ctgttggttg agacacaagt ttcaatggat 300
 gccaacatta aaacaa 316

<210> 2443
 <211> 341
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-049-Q1-E1-A1
 <400> 2443

cggacgcgtg ggttctggtt ggatttggtg tgtctgcgtc tgttggtgctg agtcgagttc 60
 ataaatggca aacgagaacc agggagaggt agagacatat gagttccagg cggaatttaa 120
 ccagcttatg agccttatca tcaatacttt ttacagcaat aaggaaatct ttttgagaga 180
 gttgatatct aatgcctcag acgcactcga taagattcgg tatcagtctt tgactgacaa 240
 gtcagttctg gaggcggaaa acttgagat tgaaatttac gcagataaac agaataagac 300
 tctaactgtg cgcgatacag gagttggtat gactaaggca g 341

<210> 2444
 <211> 374
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-049-Q1-E1-A10
 <400> 2444

aaaaaaagag aaaggaaaaa actgagtatc aggaagaaaa gagggagtat atgaggaagg 60
 aaagatcaag gaagtgagag tgagagaagg agtaatgtga atgatcgag gaaagtaatt 120
 gaagaataga gtggaaagcg cgtaccattt gcataatgtc ccagcgagtg aaaaaggaag 180
 caaaagtctc gaggaagaag tagccatgta acgatcgaag ctaggtgatc ggatgctgtc 240
 catccgaact aaggcttagc caatctctgt ggacaaagat gtggcagaga tggcaaatg 300
 ggtgacaggc tactcagagc tagtgatata tgggtactct cgaacgctgt ataagtagcg 360

tatgcaggaa agaa

374

<210> 2445
<211> 404
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A12

<400> 2445

atgatttgat tcttgcgtgtt gctttgaaga atactaaaat gaatggtgcc ttaatgaaac 60
gtttcggcag cagacaccct gaggaagtg aggctgtttc gaggcgcaact gttgcacaag 120
gagacggagt tccaaaggta ttgtcgaatg acaaaaagca actgccgcaa gacgactcga 180
tagaacatct catctcaagt gagattgaag aatatcagaa agtgccatgt taataaattt 240
ggatcttggt caagtcgtaa aaaaataaaa aataaataaa acaaaaaaaaa aaaagaaaaa 300
caaaacaaaa aaaaaaaaaac aacaaaagcg atccatcaaa aatgatcaaa gctaaaataa 360
cctatccaga aaaccacata aataaaaggg ggggcccccc aaaa 404

<210> 2446
<211> 354
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A3

<400> 2446

catccagaac gctctaacct ttaaatacat tgagcatggg caatggttgc aactaatgag 60
ctgagttgca tctctcactc tttccttata gctgcagcag ttgcagccga cgtattttca 120
agaggataga tggggatatg ctcaacagac acaacaccag catcagtgcc aacaagtatg 180
tttacagtat gcatactatc acagtccagt ctgcactttc gtaaccacac aaagcccata 240
ctggacccaa tgctcgaaga ctgtgcaaaa ctttgtccca agccagtgca gtacgtatac 300
ccaatctcct acatggacct attgcagcac ctacaccacc actagcgtac catc 354

<210> 2447
<211> 288
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A5

<400> 2447

gctcatacct taaattcttt gaggattggc agtgggtgcg acttatgggc tgacgcgcaa 60
ctctaacttt ttaagacgca aagccatata tatttttagt attgtgggat ttgtctggtt 120
aggagccatc tgcattggcg ttatcggagc gtgggcctaa gaataaaatt tgtttgagac 180
gtcgtggtgc agatgactcg catgtttggt agttggttca agtttgacaa gagaaaacat 240
ttgttgctac ttcttacaaa taaaaaagtt caaggacaaa ttgtagat 288

<210> 2448

<211> 335

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A8

<400> 2448

aaaacagagt gacaagaaga gatggcaagg agaattattgg gtgcttatat gggagatgcc 60
acagtggcaa ctctgttcag tatcaaaatg ttgttctatc ttactatcat gggtttctcc 120
ataactatct tggctctcat gggaaagaac tcggatggta tttggatata tagtgtgcca 180
cctgcagatc aatattgtgc atacaagtct tcattggagg tgaaccacca tggaattgct 240
tcctattgca agtatatcgt tgccgtagct gctattgggt tggttatctc gtttttccag 300
ttttgctacg gtctgttggg tatctttttc aagtg 335

<210> 2449

<211> 415

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A9

<400> 2449

aaatataatg aaaagattta ttctttattt gcagaattat ttgaaagttt tcctttggga 60
catttggtga tgggagaaaa ggagaaccaa cgagtattgg taattcatgg tggattattt 120
agtcgtgatg gggtaacact agaagattta caaaagatag atagacatcg agaacctgac 180
caaggtctca tggcagaatt gttgtggagc gatccacaaa aggaattagg attaggagtt 240

tcaaaacgag gaattggagt atcttttga ccagatgtga ctcgacgatt tttagatgcc 300
aatcggattg ccttgtagt aagaagtcac gaaatgaatg aacaaggata tgaaatagaa 360
gcagataata cattgattac tgtattttct gctcccaact attgcgacca aatgg 415

<210> 2450
<211> 338
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-B1

<400> 2450

ttttgactga aacatgacgg aaagcgacaa gtcagtgcct gttgtcttct cagggtccatc 60
tggagctggg aaaagtacta tcatacaaaa gctgaacaaa gattaccctg atccaatagg 120
atttaccgta agtcacacaa caagaccacc gcgaccgggg gaacaaaacg gagtagaata 180
ccattttgtt tccgaggaaa aatttaaaaa aatgatagag aatagtgaat ttatagaata 240
tgcgaatgtt catggaaatt attacggaac aagttttcaa gcagtaaaga gtgttctcaa 300
tagaggaagg ctgtgtgtgc tggacgtaaa cgttcaag 338

<210> 2451
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-B12

<400> 2451

agaattatcg gtttgcatac gatggctttt actcctctgg aggaagaggt tttcgaggta 60
gaggtggccg tagaggaaga ggtagaggca atggaatata caagtttggg tctcgagggtg 120
gttcatccgg tggtcgtggg ggtagagggt gcggacagaa acgtggcgga atgaacggcg 180
gttccaaagt ggttattgaa ccgcatcgac atgctggagt ttttgttgca cgggggaagg 240
aagatgctct ctgtaccacg aacttggttc ctggtgagtc cgtatatgga gagaagcgca 300
tctctgtcga agtagaaaat ctcaacgata cttcagttat agagaagata gaatatcgag 360
tatggaatcc atttcgattc aagtttagcag cagctatttt ggggggtgt 409

<210> 2452
 <211> 381
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-049-Q1-E1-C10

 <400> 2452

 acccacgcgt ccgcccacgc gtccgcccac gcgtccgcga ctcacaggcc tggatggaat 60
 ttgtcgatca ttgtctttgg gaatctaggg attctcatatc agcagacagt ttagtcgact 120
 ttgtgtcatc tgtatgtctt ccctgagact tgtcagttct ttaggaatag aacctcctat 180
 tctttcatgg agtaaataa aaatgaagta aaaggaggga atgaaaggaa gttatggcac 240
 aaacacgtgc catcagcagc ggtaaaacgt gtgtagcaag cgtagagcaa atcaactggg 300
 tgtacaggtc gagtactaga gtaagtgtaa aatggatagg atatgacaga aagacgaatc 360
 ggatgaaatg cacagatctc t 381

<210> 2453
 <211> 186
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-049-Q1-E1-C12

 <400> 2453

 actgacgcat aggttcatgg gtgttctgag tggatcggta agaattgtta gccgtagtgtg 60
 acgtcccgag ggtgcgagc actagtcca cttgattgag cacaggcaaa gttaaattgc 120
 aagcttgatc aagtcaagta tgcataagat gtgaacaatc agagatagtt cagtgttagc 180
 tactgt 186

<210> 2454
 <211> 333
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-049-Q1-E1-C6

 <400> 2454

 acccatgcgt ccgcccacgc gtccggatgc aacattaaca aaacgcggat cgactgcaag 60
 attcgtctcc agataagctt gtaagtagta tgcctagcaa ggggaatagt tcttagacgt 120

tcactaggtg aaagaacagg aagatagttt aagacgaaag tacggtaact tgccggataa 180
aaagcacctt ctccagcaac tactcaatgc gaaccacatg cactaactaa aattttttga 240
ctctgcagac gcaacttttg ccaaagtagg aaaggaattg gcctaagaag ttggccttga 300
atatgcctac ccaaactctg aggatgagtg ctc 333

<210> 2455
<211> 352
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-C7

<400> 2455

accacacgt ccgaacatga cctcggtcaa gtaaagaaac agctctttca atcgcttctg 60
ataaaaagaa aaatgcaaca agagatagag ctgaaaaaat ctaggcggac gcgctgaagg 120
atacgttctt cattaagcgt gcaagccacg tcgccagatc ttccaagctg tgcccccggt 180
tcatttcagt gggcgctcgtt ctttgacgtc gtaatgggca ctgtccgtac gttactcaac 240
gtaatctctg tgcaattgat gctcatttcg cgagtcgggtg tcttaccgaa taggtcctct 300
acgtttggtc tgccatacag ttacccttgt cgaacggcta ttgggacacc cc 352

<210> 2456
<211> 244
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-D11

<400> 2456

aattatacgt acgtacccaa ttgtcggcaa ggcttgcaaa gttttcccat ccttttcata 60
tactttctgtt acagtatcac atcgcttcta tttcaagatg aggtcttaca tcaagtgact 120
gatgcactca aattggaact ttctaccta tgtgaaggat accgccgatt gcaactttac 180
tggaatatc cttgggttgca aagaacgatt ggaataggct ggaattactc ggtaacatac 240
gatg 244

<210> 2457
<211> 233

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-049-Q1-E1-D3
 <400> 2457
 cgtccaacca ctagtcagcg tcatgaccgt tctggaatgt aagtgtgtt tgggtgattgc 60
 acatccctct actggactat cgtttgaaaa acatgtcgct gcaccttttag gtgcacatgt 120
 caggtgtatc cgaagtgaat gcaatttggt accagatttt cgggttaggc atcgtttagat 180
 tcgctgaagc cacagcggga gatcatctat acacgccgtg cccttatacg gga 233

<210> 2458
 <211> 336
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-049-Q1-E1-D7
 <400> 2458
 aggtgattgg aacggctctg gttgtcacac caacttttct acaaagccga tgagagagga 60
 tggcgggttac aagaagtata ttttgccagt gatggaaaag ttaaaggcaa aacataagga 120
 acacatcatt gcatatggaa agggaaatga aaagagactt actggaaaac atgaaacggc 180
 atccatcgat agttttcttt atgggacagg aaatcgtgga gcttcagtta gaattggcaa 240
 tcaaacagca aaagatggca agggatactt tgaggatcgt cgtcctgctg cgaatatgga 300
 tccgtatatt gtcaccatgc ttcttgtctc tacttg 336

<210> 2459
 <211> 155
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-049-Q1-E1-E10
 <400> 2459
 acccacgcgt ccgcgtatat cagaaagtca gtgcaaggaa taaaaaaaaa aaaaaataa 60
 aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaataaaa aaaagaaaaa 120
 aaaaataaaa gggatggggg tggagctcat gaggt 155

<210> 2460
 <211> 319
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-049-Q1-E1-E11

 <400> 2460

cccacgcgtc cgaaaagaca gagaagtgag acaataccat cgcagccgta ctgaacaccg 60
 acacaggtac tcgaggagct ctgacactgg ctcatggtta gaacagtgc gatgaggaac 120
 tatgcatatg gatatcgtat ctgcggtcga acctatgata caatcagcat ctatggttta 180
 gcatacatag agcactctgc acaacagaga aaatgtattc tagaaagtgt gcggcctgtc 240
 acatagtaga gaagacatcg atgatactga cagcgagtat atgatgaggt acacacaata 300
 gctgtcctaa ctgtcatga 319

<210> 2461
 <211> 336
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-049-Q1-E1-E5

 <400> 2461

agtggatttg ttgcaagttg gttggtttct ggactttaag gcactctctt tctcttgttg 60
 gtgtgactgt tgtagatat tgtgaaagat gggagtcaaa gttggtatta atggggttgg 120
 gagaattgga aggctagttc ttagagctgc tttggagaaa cagtctgtag atgtggtagc 180
 tatcaacgat ccctttattg atttggacta tatggtctac atgttcaa atgactctgt 240
 gcacggcgct tatccaggtc cagtggtagc aaagaatgga aaacttgctg tggatggaca 300
 cgaaatggca gtgtttgcct tccgttgacc tagtga 336

<210> 2462
 <211> 246
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-049-Q1-E1-E9

 <400> 2462

agaacacgtc gagcaacaaa taagactgga ttcttcttgt agagtaaagc gacaataaaa 60

ctatatattggt agtcacgctt gttcaagagg gaggcacatgag gattctcgtg tggaagatt 120
 gatgacagaa cttcagcagt tgctaagata gacttatgac catgtatata tgatgtgaca 180
 atacacatat gagacgttta ggtaactggt gatgcatgtg atgtttgtac attagatgat 240
 caaaag 246

<210> 2463
 <211> 355
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-049-Q1-E1-F5
 <400> 2463

gacccacagc gtccacccac gcgtccgccc acgcgtccga tgaaagggat gaaatgcaga 60
 gatctctaga gaaaggcaag aaagaaaaga aaggaagaca cagtaaatga ggcgagaaag 120
 cataggaagt gaaacggatt aggaacccgt gtagtctatg cagtaaaaga aagaatgagt 180
 aagaaaaaag ggagtcattc caccagggga gtaaaggcgc aagaaagaaa ccaaagcaa 240
 ttgacgggaa tcggaaaaag gggatgatca cgtacattaa tccgatataa accgagaacc 300
 ttacctctcc aagaaggtgt tgcacggctg tcgaaagaac gtgctgtgaa gtgag 355

<210> 2464
 <211> 315
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-049-Q1-E1-F9
 <400> 2464

accatgcgtc cggtcttcgt tttatgcgag aatttcgttc ggatgatgcg atcacgaaat 60
 agatgcgttc gactattgat ggtcgcaacc actttgtgat atctgcgggt agacgttccg 120
 atctctctat gcggaattca taagacgaac gtgtggaaga atagttgcac tttgctaacg 180
 gaaagtttgt aaatcactcg gttcgatta ccacggaaca taatgaagtt gtgttgcccta 240
 agataatctc ttggtatagt gatgacgttc ctaggactgt gcattccttg ttgcgttggg 300
 ttatactaca attgt 315

<210> 2465
 <211> 415
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-049-Q1-E1-G11

 <400> 2465

 aggtgaggtg ggaagcaaga agagatgagt agaggaagta gtgccggtta tgatcgacat 60
 attactatatt tctctccaga gggacgacta tatcaagtag aatatgcctt taaggctgta 120
 aagtcagtag gaattaccac cgttgctgta aaggggctgg atgcagtttg tggagtaact 180
 caaaagaagg ttccagataa gctcattgac cctaaatcag tcaccaatgt tttccgaata 240
 tcggatcacc acggctgtat tttcactgga cttgcaacgg acgcaagggc acaactacaa 300
 cgaacacgat cggaagcagc agatttcaag tttaagtttg gatacgaaat cccggttgac 360
 cagatagcga aaagattggc ggacatcaat caagtttata cgcaacacgc atata 415

<210> 2466
 <211> 362
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-049-Q1-E1-G4

 <400> 2466

 ggccgacgac gcgtccacaa cagatttata cgtttcttgt atgaacgggt cacaactatt 60
 tcgtcctgaa ataacagcag actgcatttc cgaaatggac aagtgtgtgt cattgagagg 120
 aatcggttca agtcagttac tttttggaga gcttcttgcg gaagaaggag agacatatcg 180
 tttcactgta ttttattctt gtgaaaaggc aagaagtga ggaattattc atccaaaact 240
 tgtcttaaac tttccacctt ttcaacctgt aaagcttgaa tggaggaagg actgcggtgg 300
 aatgctggcg tcctctatat ccgtaggaac tacatggcat ggaagtgata ttatcaacca 360
 ag 362

<210> 2467
 <211> 339
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-049-Q1-E1-G5

<400> 2467

acaactggct cctgtttaca gtccatcgat acaaaaagtc aagtatgtgc tttgctctgg 60
aatagacatg ataaggagat cgtcagcagt catgggtttt cacagaatca gcttatcgta 120
tggaatatc cttcgatggg aaaaattgca gagttaactg gacacacttc gagagtttta 180
catttggtg caagtcctga tggtaaaca gttgtttctg gcgctgggta tgagacatta 240
aggttttgga gaatattcga ggcagcagaa tcgaagctgg attcttccag taagacatgg 300
agaagttcgc aaaagagtat gatgaagaca tgtaacatc 339

<210> 2468

<211> 358

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-G8

<400> 2468

cgggccgacc caagcgtcca gaaaaatgtt tgtcaacctc catatcattc cataccgtta 60
tttagatccg tttgcttgta tgcagtggca ttagaaacca actttatcgt ggatgaacaa 120
gttttgaga actgtataga ctatttgtgg aatgataatg actgtgttgg aaaggaggaa 180
ataggagata tttcgaagaa tacatatcgt cttcccattg cttggacgat tgctcaacgg 240
ttaggaatat cgctccattc atttcatttc attgttagtg tttatcctgc aaaaatattt 300
ggactacatt gcaaaggaaa actggaaaga ggttatgatg cagatatagt cgtttggga 358

<210> 2469

<211> 405

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-H11

<400> 2469

agaatcacac atcatgacca acagcaacgt cgcctttgta accctcttgt ctccaaacac 60
tcctagaaat aagcttttgt tagggaaaag acaacattca tgtaaacatc cgagtcacaa 120
tagttatata aagtatcaag atgctgcttt caagtgttcc cactgcaag caaaggaaga 180
tggccaaaag ggaggtggaa agttcaatcc ttttgcggca cttggaaatg ttgggaactt 240

tatggacgcc gtgaagaaag cacaggagtt ttcaaaggaa gctggaaaga tgcaggaaga 300
 gttatcaaag acagagctga aagcttctgt aagtatttga acaaatacat gtttctttga 360
 ctttggaac tagtcagagg acggtttggc ccacgcatat ataac 405

<210> 2470
 <211> 358
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-049-Q1-E1-H2
 <400> 2470

ggccgacgac gcgtccagtg tgcatttct atggcttttg ctttgcgagg tctagcgagt 60
 ctttcaagtc gtttgagtac ttggaacag gggtacaaga ttgtaactgt tgcaaataat 120
 tttgaacgag aaagaggact gcgactgggt agttccttcc aaagtgcgag gcagtggact 180
 tcgttgcaag gtttggtatg tcgctataga agtgacagcg ttgtggaggg agggaaaaag 240
 caaaaggag tcgctactga aagaagtcct gtttctacag ccattcccat gggttatgcc 300
 gatgaatttt ccattcagtg catcgttggc gtccaggaga tccaagtaaa cgaacggt 358

<210> 2471
 <211> 335
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-049-Q1-E1-H4
 <400> 2471

ggacaatgaa catcagattg ttggtgaatt ggataagatt gtcctaatac tgcttgctgg 60
 tgataagtta caaagtgtca aagcgagaat agaggaagtc gtacagaaat atgaggcaac 120
 aagacaagag gcaatggaag caacgagaag gttccaaaag attcgtgacg agcgaaggaa 180
 gcgttttctt tcatgtttca atgtagtttc ttcgaatatt gatagagttt acaaagaact 240
 tactcgaaat tcagtctcgc agttgggtgg cactgcttat ttggcactag aaaactacga 300
 agaaccttat ttatatggaa ttaagtatca cgcta 335

<210> 2472
 <211> 376

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-049-Q1-E1-H9
 <400> 2472
 actgagtgcc agtcagtcct tgctgtcttc cttgggtcca cagttgaacg cagacgttcc 60
 tgatacttgt aaagagtgtg gaagtgaaga cttgggtgaa gaccacgccc aaggagacgt 120
 catatgtaga aactgtgggt tggtagctgc ggaaagaatt gtagacttgg gttcggagtg 180
 gagaaacttt gaaaacgatg acagcggtag agaccctagt cgtgttggag ggccgagcaa 240
 cccctcctt gagtcgggtc caagtaccgt gattggagga gtagtatcgg actctaaaag 300
 tttgaacgca cgtttaataa gggctcagaa tagacacagt acttcaaaaa gtgaccgagt 360
 tttgttggat gcgttt 376

<210> 2473
 <211> 255
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-050-Q1-E1-A3
 <400> 2473
 tctttgtgct tggacaatgg ttgcaaagac tgctctgagt tgcctcttcc tctctttcct 60
 tatcgctgcc gcagttgcag ccgacgtagt ttcagaggcg agatggggat atgctcagca 120
 aacccaacaa cagcaacagt gccacaagt atgtcaacag tatgcatact atcagagtcc 180
 agtctgcaca tccgtaacca cacagagccc atactgggac caatgctcga agactgtgca 240
 aacctttgtc ccaag 255

<210> 2474
 <211> 307
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-050-Q1-E1-A7
 <400> 2474
 acgcgtccgg gtgtcacctg ggtctattgt gtgcattgag tgtaccggtt ccatgcaatt 60
 aatgaatcac ctcacatgct gtattatcta atctataccg gttagaatcc tatgctaact 120

agatttatat tgacgtgata ctagtgcac agcttagaga tatatttgct atggcgagaga 180
 gcatcagttg ctccattggt aatcatatat gtgaacgtat tacgagtga cttcgtagac 240
 ttgccgctta atctaggcag attcctttca cttctcgtgt cgtacagact gctgtacgtc 300
 tgttgct 307

<210> 2475
 <211> 414
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-050-Q1-E1-B11
 <400> 2475

agtagagatt ggttttcttt tcgtccacgc ttcgttcgt tactttttgt cgtgacaagt 60
 tataatataa aatggccaaa gtaaaccctg tgctcgtcggc tcctaaacta agtgtaacta 120
 gagagatagc tatcgggtatt gggcttggt tagcggtaag ttttcacgcc agggctttgt 180
 agagagagag ggagagagag agaggggcgc cacagtagcc aactgcaaag aagagaggcg 240
 tggaatattt tgtggaatac atggaccta ctttggtttc tagtgtgcta tggatattcg 300
 ccagtggcat ctcgataca cggaaatgat aagaaaatat tatcgcgagt tggatgaaca 360
 agaacagagt tcctcgtcgt cgtgaaaacc gccttggtt tgtgagatag caat 414

<210> 2476
 <211> 217
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-050-Q1-E1-B3
 <400> 2476

tccggaagac acagtaaag aggcgagaaa tcataggaat tgaaacggat taggaacccg 60
 tgtagtctat gcagtaaat aaagaatgag tacgaaaaac gggagtcatt ccaccagggg 120
 agtataggcg caagaaagaa acccaaagca attgacggga atcggaacaa ggagtggatc 180
 acgtcaatta atcagattaa accgagaagc ttacctc 217

<210> 2477
 <211> 369

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-050-Q1-E1-C1
 <400> 2477

atggcacaga atgctgcccc taatacgctg aaaagtaatc aaatacgact aagatatttg 60
 cgcaacttga ttctgggttc taacttttcc tacgttggtg tgcgaatttt ccttgcaagg 120
 catagtttta ctgttgaca atttcgttta tggttgattt ctcttatact cgttgcttgt 180
 agttatttct tcttacaaga cgccgcaaaa ccaacttttg agagaggagt cctggttgat 240
 ggaggctacg acatctccag caaggggttg gatggaatat tgtcacgaga tgatttagat 300
 ctgttgtttt acagtcgtct gtgccatttt ttccaacaag ttttgggtca cgttgttgct 360
 gataccaac 369

<210> 2478
 <211> 351
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-050-Q1-E1-C11
 <400> 2478

cggtcgacct acacgtccac ccacgcgtcc gccacgcgt cggatttac gaagtgcaca 60
 gtgcctacta tcaaaccttt ttgactgttt ctggcaagtc agctaatacg tcttcgggt 120
 tggataagaa aacgtgggat gccatacgta gtgaagtaga gatgcaagtt ggtagtctg 180
 ttgtagatgt gttttttcgt gtgcaagtaa aggttttttt gtttgcgtgt cgaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaagg 300
 gaagaagaac aagagggata agagaaaaga taagggtgta tgaaaagtaa a 351

<210> 2479
 <211> 281
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-050-Q1-E1-C3
 <400> 2479

ttcagatatg agacgtgtca agagaccaaa cttttctgtg cggtttaca aaaataagtt 60

tcgtgaagaa aacccaaga acgcctaata ttagtagaaa ccttgactg tttcggtttc 120
ctaccgagtc tgaaaatacc ggcaacacaa caaagtcgcc tagcttacia gtgtcgtctc 180
acgggacgcc ttcgaccctt cataatcccc cggaatcttc gtatcctgag tatttcgtga 240
aaaataagta ttcactgtat agaacgggac tgggttgaaa a 281

<210> 2480
<211> 383
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-050-Q1-E1-D5
<400> 2480

cgtccaagcg aaacaagaga agggaagtaa aaggtaagaa agaggaaagg tttacgagag... 60
aaggaaagtag aaagaagaga gtgtaaggcg gcgtcataag agaaatccga aaggagtaga 120
agaaaagaga gagaagaaag aaaagaagag aaaagccgta ctgaagaccg acacaggtac 180
tcgaggagaa aggagacca aattaagggtg agagaatgga cgataaggaa ctaggcaaaa 240
ggatatggta tctgcggtag aacatatgaa agaagcagca ccgactgttt agccaggaca 300
cagcactctg cagaaaagag aaaatgtaaa gtatagagtg tgcgggctgg caaatagtag 360
agaagaaatc gatgaaagtg aaa 383

<210> 2481
<211> 452
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-050-Q1-E1-E10
<400> 2481

ttcccgggca acgaacaatc acgaagaact ttgagaaaga attgtggtca aaagtactct 60
ttatggaaaa tgatttttagg aaaacatcga ttacctcgta catgttgctt tttggctgct 120
tcaagagatg cctcattcgc tgcagctttt actattctac caaccgctgg agaaccgcaa 180
aagaatactc caacagcttc cggatccga ataaagtctt ctctctcgaa tatatttgaa 240
aataattggc tccattgcgg tcttccgata tgatctcgaa tttttgagga gttttctggc 300
agcgagagtt cattgacaac tctgtgaaca aagatatcta tttgaacatc tacaggactg 360

tcttctgaaa ctattcggtc aaagtctcga aagaaccagt gaaaaccatg aactgttctg 420
 ttgacccaaa taaagtgaag tgactttgat gg 452

<210> 2482
 <211> 428
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-050-Q1-E1-E11
 <400> 2482

atthttccaa atatcctttg cgaaaacatg tttcgtctac tcacgaaaag tattgcacca 60
 gttactaaaa gcattttggt atccacagta aggtataata gtcctttgca gctgagtaaa 120
 gcagagatat ggagagcttc ctatccaatt ggaagcagac gttcctttgc agaacaaaag 180
 gcacagcagc agtccaaaga aggtgaagaa ccaataacgc cttatcaacc tgtgacggag 240
 aagctggata aaagagaccc aaactaacct tggaagtgga gaagttttct tcttgaacat 300
 agctacaaac ccaacctcaa tatcaatctg gaaaggcatc atacaccttt aaagatttag 360
 agatagggta gctcggggga atcgtcaagt ttttaagatt ttttgcgat gccttttttc 420
 agaaacga 428

<210> 2483
 <211> 290
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-050-Q1-E1-F5
 <400> 2483

tagagggact ttatgtcgaa taggaggaga aaactcgagt ggtacgtagt ggctgtcttt 60
 ctagtagttt gttgctcgtg tcgtcaagtg tcgtcctttg atttcatatg cgaagctagt 120
 tggcaggctg aagacgtttg tttcgaggac gacatagaac aaggaggtgt cttaagcggc 180
 aactttgatg tggtggaccc tgaagagtcg gatgtcgatg tagagttgga tcgagtgccg 240
 cgagaaggag ctcccagtg tgagtgggag tggagagggg taaggggggt 290

<210> 2484
 <211> 332

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-A5
 <400> 2484
 agcccacgcg tccggttgta tagtaatatt ttaccgtatt tgaaacaaag attggacggt 60
 atctattgtc atcaaccacc gcttgcagac attagaaatg aaaaccgaaa agatatattg 120
 gccaatgtta ttatcgatga acaacaatat cgattgtctt tgaccaatac tgccaaattg 180
 ttatgcattg ctgcttatat ggcttctcat atttcccaa aacgagactc gaagatattt 240
 acaaagaaat cgacgcgtgt caaaaaacat cgcaggagaa ccaactcatc cactctgaca 300
 gaagccattc ctttctgttt agaaagactg tt 332

<210> 2485
 <211> 424
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-A6
 <400> 2485
 cccaagcgtc cgtccacgcg tccgcccattg cgtccgcaca cgcgtccgga cccaagatat 60
 caaaagtgtt agattggatg aatgctgatg aaatgttatc gagaggcttt aaagaacata 120
 tttatgaggt tttccaatat aggccggcac actggcaagt tggcactttt ctccgccact 180
 atgctgcagg atgtacgaaa aatgacggag aagtttatga gagatccagt tgtgattttg 240
 gtgcagaaag atgaacttac actggaacgt atcagacaat actatatagc agtggaaagtc 300
 gacgagtaca agtttgatac tttatgtgac ctctacgaaa ctttgactgt tacgcaggct 360
 ataacttacg tgaatacacg gacgaaagtt gactgggtca cacaggagtt gcgagaacgc 420
 gact 424

<210> 2486
 <211> 391
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-B10
 <400> 2486

cccacgcgtc cgtctcaccc caactagtag aagaatatgt tggcgtttac ttgtctcaca 60
 gactgtcggt ggtagagac ttctcgattc tccagatgtg ccaaagccaa taccgtctcg 120
 ttgcgacgta gttcccagtg ttcacactct tggaggagtg ttctgatgaa ctacagtccc 180
 tattcgataa ctaccgacaa atcagaagga catattgttc ccggtacttt ttcaagattt 240
 gagtttcttg aaggctgagt caccggtcca accgtcttga accctagcat acttgacttt 300
 acagtgtcca atgtttcaga tgctgccttt ggagaatgga gagcaatata ggcttcaagt 360
 agagcaaaag aactggaaca cagaagaaac g 391

<210> 2487
 <211> 383
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-B4

<400> 2487
 acgcgtcagc ccacgcgtcc gtttccaact tatgtgcgtg cagcaggaac gactattact 60
 acttggtttg tgaacgcttt caactttgcg ctttcattct cgtggccttc tatgaaggct 120
 gcatggggac ctcaaggagg ttctcgattc tatgctgggt tcaactttct tggcatcggt 180
 atgcagttct tattcttacc tgaaaccaag ggctttacat tggaacaaat gagagtcgtg 240
 tttagaggagg gtttattcac catcgcagct tatcactgtc gtgctgggtg gagaacactt 300
 cgtaagcttt tgggacttcc agttccagac actcctcttg tttctcccta ctataacgcc 360
 tacgtattg accgcgtta gag 383

<210> 2488
 <211> 95
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-B5

<400> 2488
 cccaagcgtc cgaatgggca tagatgtcat ggtaaccaag gaaggtatcg tgcaacacat 60
 cactcttcaa aagacagcct ccaaatgcaa ctttg 95

<210> 2489
 <211> 363
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-B9

<400> 2489

cccacgcgtc cgcccacgcg tccgcttttt ttttggtgaa agaacatggc agttggaaag 60
 aataaacgcc tttcaaaaaa aggcaaggga gtgaagaaga ggttgacaga tccgtttctt 120
 agaaaggaat ggtacgacat aaaggcccca gcaatgtttt ctcaacgtca ggttggaaag 180
 actttggtta ccaagacaac cggaaccaa attgcttcgg aatcactgaa aggtcgagta 240
 tacgatgttt gtcttgccga cctgagtagc aacaaagacg agagtttggc gtacagaaaa 300
 attcgtttgc gttgtgagga agtggaaagga agaaactgtt tgaccaactt ttatggaatg 360
 gac 363

<210> 2490
 <211> 109
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-D10

<400> 2490

acccacgcgt caagtcactg gaaagtattg gaatagtaag ttgatacttt gaggcctgct 60
 tgaaaagtgg aatcatactt gtctaccaag aatgtctctt cgtttcaca 109

<210> 2491
 <211> 423
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-D3

<400> 2491

gtccgtttga atgacagaat taggtagtag taagagacag ccagttgggg ttcaagagtc 60
 tccaagaaca agtgcagaaa atgagaaaaa ggaagctata gctaacttag ctgtcatgtt 120
 tccaaacttg tcgcgactg agttatcgaa cgctttggaa gctaatagct attcagttca 180
 aagaacggtt gactacatac tctcggaaaa gtcctcctcc tcacccgccg cggcagcaga 240

agatgcgtcc gaagttgccg ctgcgcatcgc tcaggtagag gaagacgaac gtttagctcg 300
 tgccttgcaa agcgcttatg aacgggaaaa taatgttgaa agacagacca tgtctcgaac 360
 gagttgggac tcatcagcag cacaaactcc tttgttgaa aagctcaaat tatacggaag 420
 agc 423

<210> 2492
 <211> 84
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-D4
 <400> 2492

acgcgtaagg tcaatttcaa tgattcactt aggtcgtagt aagagacacc cagttgggggt 60
 tcaacactct ccaagaacac gtcc 84

<210> 2493
 <211> 201
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-D7
 <400> 2493

cgactcaagc gtacgcccac gcgtccgtat gtgtaattatt caagaagagg ctcggggcaa 60
 ttatgagaag gttggcacat gtaggtgctc taagaggtat gtagtcagct ctagggttgg 120
 gtgtcatgtg tccacagttg tctaccagtg gattagcgag cgcttttgaa ggtgatagcg 180
 attgagttca aagaagggtt c 201

<210> 2494
 <211> 231
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-E1
 <400> 2494

cccacgcgtc cgccacgcg tccggattgt tgaagaaata aacaaggaga atgggtttttg 60
 gtaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa agacagcgaa gaaaaagaaa gagaaaggca a 231

<210> 2495
 <211> 120
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-E11
 <400> 2495

tggcttttctt ggtgcagtcc cgtaaaagta gcggctccca gaagacgtgg ctcaattggt 60
 tttggacaag gttctatatg cagtagattg gctgtctcat gtgggtcccc tatctgcgaa 120

<210> 2496
 <211> 211
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-E5
 <400> 2496

cgaccaagc gtacgagcaa actgtgtttt tgcggacctc cttggaatcc aagttgcata 60
 tttgcttgaa agaagtccaa tgaaagcggt tcgacaggag cccaacatgg ctctgtgagcg 120
 tttgcagggt agcaattcac gaacggaagt cgatacggac tagcgctcca gtgcacaaca 180
 acgcagtcgc agcgcctagt tctgccaccc g 211

<210> 2497
 <211> 422
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-E7
 <400> 2497

agcccacgcg tccgcccacg cgtccgggaa gcagaagtat tcgtagcaaa gttgggtagc 60
 tgggcgacag tcataaaact gttctatcag acagtgaaat gctttcctaa tcaagtggga 120
 aactaccaat tacttgttca gcacgagtga ggataacttg aacaaatcct catatggaat 180
 gtgacacaac gtatctcaac taagaaacaa tgtgaaatat atccaacaac gtcacttttt 240

attattgaga caaacttgat ggcgagacac aaaacaacca caaaactatt gcgctctgcat 300
tctatatacct cgcagttgaa atagaaattc gaagcctatt tggagagtgg ccagtttaag 360
tcattctgttg aagaaaccct ttctctgtca aaccacaaa agcgcataat atgttggttt 420
tt 422

<210> 2498
<211> 262
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-E9

<400> 2498

gtcagcacat ttggctggat tccgagagag tgcattggtg cagacaaaac gtttgctgaa 60
gacaagactt ttacgttttt atccttttca atgtctgcag tggaagtcgt acaggtaaatt 120
gttctaaatg atcctggttg ctttcgagac acgttttggt ttgaaataac ttatgaagtg 180
agacaagcgt gacaacacga tagtgagtgg aaagtaattt aggtgagttg tgccagagag 240
gagagtctgg accaagtttt gg 262

<210> 2499
<211> 358
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-F1

<400> 2499

cccacgcgtc cggcgttcca cacgtccgag tgttggtgtc tgcgttaatt agtcctctct 60
agagacttca atataaaata acaaacagtt gtaaaaagct attcactttt ctctatgaga 120
acgagtgtc aagtgtcacg ggggttttgc gcatagAAC gatatacgag agcagacatg 180
ttatagctgg tctacttgga agcagtttgg agtttacaag agaaacgagt tgggctctgt 240
tgtgtcggtt ttcaagttta catcgtgaa tactccaagt attgaacaat aaattgggtt 300
atttacgaca aacaaaaaaa aaaaaaaat aaaacaaaa ataaaaaaat caacacgg 358

<210> 2500
<211> 377

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-F10
 <400> 2500

gacccacgcg tcaggaagcg ctgtacgcaa aaaattgaac aacactacag atagcgatag 60
 tgcgtctgat atgactggac atatatctga tagtattggt tatcactcag gaggagatgt 120
 ctcttctgat caaaattccg tgggttctcg agaagatagt ataccggaga gttaccactc 180
 aactcgtcgt cgtgattata ttgattggaa tactttgaaa aatcactttc accttccgat 240
 gaatgaagct tcagccaaac tgggtgtatg tgtgacggta ttgaagaaaa tatgtcgtcg 300
 tttcgggaata tcgcatggc cacaccgcaa attgaaatct gtagctagac acattgaaag 360
 acaagaacga gctttttt 377

<210> 2501
 <211> 411
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-F7
 <400> 2501

cccacgcgtc cgcgctcaat atactttctta ctacggcgaa tcactctcca gctattatta 60
 ccgagcagct gctcctcaga gatggtatga ggaacaatgc acctcatact gctgggttcc 120
 agtacagacc tatgaaactt atcaatgttc tcaagagaag aagaaggagt acagctatcc 180
 ttgtcaaact tatgagcagg tttcaactac ttaccagtgt ggtcagtacg agtcccaaca 240
 agtttactac caatgccaaa agtataagga gggtactcag caagaatgcc agtacgtcca 300
 agagtcgtat tgtgtcagat atgaagaatg tcagcaagtt acccaggaag tttctccttc 360
 agaaattgtc tactacggtg aatcttcttc tagcagtagt tactactact a 411

<210> 2502
 <211> 211
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-F8
 <400> 2502

gaagcagcgcg tacgacgtta tgcagttgtc caagctatct taagtgagga agacagagtc 60
 gtggtcatac acttttggta ggactttgac cgcacatgta tgttgatgga cgaacagtt 120
 tacaacggca gcagaaatga taataatctt tgctgtcgtc tatttgggtct atatgcggga 180
 agtccttgac tttcacgcga tgtaccacct g 211

<210> 2503
 <211> 343
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-G1
 <400> 2503

cccacgcgtc cgaataatgt tcgtgtctta ctccgtacct gcaagaaact taccggcttt 60
 ggacgtaac ttttccaatg tctgtctctc gaggagtggg ctgagagggg gatgtttacg 120
 aaatgtgaaa gttttcaacc acaaacgacc tgcaagggtg ttatctacga aaatgagagg 180
 aggcgaccat gaaaggagag aacttagtcg tctatgcgt acgcttgatt ccgctttcga 240
 cgaactttta gcttttgccg aggatccctg gtccatgttt cgctctccat ggagtctgtc 300
 gccagaagt atggcagtag acacgtggat gcctcgtgtt gac 343

<210> 2504
 <211> 274
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-G3
 <400> 2504

cattatctgc gttgtttggg gatttcttcg tgggtttgcg tctcaagatg tcatttttga 60
 aacgtataca gtcgactctg ctttccaaca gaaactcagt aactaagacg agtgaggcca 120
 attccacat acagcacgtt cgagtttacc gctgggactc tgaaaatcgg agaagaacct 180
 aaatgtgggc acgtaatcca ttctcccaa gtaatgcagt cccatcgtgt tggacgccct 240
 catcaggaca tacaatgaca tcgactctac cttt 274

<210> 2505
 <211> 367

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-G4
 <400> 2505

acgcgtaagc ggacgcgtgg gcggacgcgt gggcggacgc gtgggaggac gcgtgggcgg 60
 acgcgtgggt tcgcacatcg ataatccacc caacagaaca acgctgggtg taataagagg 120
 agcagcagct ggagcacaag gtgatgatcc atcgcagcag cagcagcaga ccttgccggg 180
 gtcgttttgt accacgacag acgacctgtg gtttgtttgt aacaacaact tgggtgtcatg 240
 aaaattccaa gtggagtaat ggcaagtatt tgcctcgtca aagttttatt tccactgggc 300
 gcgcctatta gaaacgttac aaccatagaa aggttgttgt ggttcctacg aaaacttgtt 360
 gggccaa 367

<210> 2506
 <211> 263
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-G5
 <400> 2506

cggacgcgtg ggatgttaat gttgcagtat acgacagaga agagtgtgtaag ggtagaggaa 60
 atgaatatcc tggaaggaga atggtaatgt atggactaat aggagtaatg ataataatga 120
 cgtaagagg gaaggagta ctgggagtag atgtacgaac gtcattggtta gggataagta 180
 gtgtaataat aatgggaata atgggaatga tacatgttgt aagtacgtca tacacaaaca 240
 tggagtccat ggaaagggtt acc 263

<210> 2507
 <211> 420
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E1-G7
 <400> 2507

agattgtcat catgaaagct gccgtctttg cattctttgt cttagcacta tgcgccgttg 60
 ctattcaagc ttctcctcta gaggaaactt tgggtgcctt tatgcggggg gggttatcaat 120

cgcaaagcca agcaccaaaa cctagctggt gcaagttgag ctgtcaatat acccaaattt 180
 gtgaacaagt tatccagact cagcaagtta tccagactca gcaagttatc caaactcagc 240
 aggtcatcca aactcagcaa gtttaccaaa cacaacaagt gcagcaaaca caacaagttt 300
 cgtcagcata cggacgcaat gaggtatcca gagggggata tgcccaacag tctgtaaccc 360
 cagctcctgc aacttcccgt ggtccacggt tcaagtcaag tgctgtaatt agtgctcatc 420

<210> 2508
 <211> 418
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H1

<400> 2508

cccacgcgtc cgacaaagtg tcgtttacaa aagaaagtat cacatattcc ctctgtattgt 60
 gtgaggatga gttgggttgc aactttaaaa tcttccaaaa tagaaggctc ctctgctatt 120
 ccagaagggtg aacagcctga cctccataca aagtgggagc agtggtttaca agagaaaggg 180
 tcaccagagt gccaacagtg tcaaggttca ggacaaatac catgtcctgc atgtgaagga 240
 aagggttatt tcgtgatgga agttttcaat gttacctcta gtaaccagtg tcaagtttgc 300
 cgtggacacc gtaaaactcc ttgcccact tgtaaagaat acatttatcg ggcagtaaaa 360
 gaattatgat ataaagtaaa gctcaatctt tagaaatgga aatattgcct ccagtaac 418

<210> 2509
 <211> 369
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H10

<400> 2509

gaggcacgcg tcaggtcctg atgtcgcgct cttcgggtaca aggtaaaaag gaagagggag 60
 ttgccaatgg gacaagggtt ggtacagcct ttggggacgg acttttgcct caaagtcact 120
 ctgtagactt gtcgtctcag ttgggacccg cagcggaaag tgaatttgtc gtcgacaatg 180
 caaacgatac tgagaaccat caagtgggag atagcaccat tgaactgaat tccaataccg 240
 aagtgggttca cgaccaagta gaagcgactc attcgacaag tggaggcgca gcacttcgag 300

atattgtgct ggggaatgtca gatggcctca cagttccttt tgcactagca gctggaatgg 360
ctggtgcct 369

<210> 2510
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H12

<400> 2510

acgcctgcag gtagcgggttc gggggtcgag ggacgagtca ggctgttctg tatggacctc 60
gataaggaga ctatcgaacg catatccaag ctgtccccgg aagaaagaaa ccaagtggaa 120
gaacgtgtga agaacgagat gttgagacaa gtttttcaag agctcgttca gactatatct 180
gaaaagtgtt tcttcaagtg catcacgaag cctggaagtt ctttgacatc aggtgaacaa 240
acttgtcttg caaagtgtat ggatcgctat ttagatgcaa tgggaatcgt ttccaagacg 300
ttaatagaga gaagttcacg taactctaac tagtttgtgt ttgatccgag gatttttgac 360
ctgttagaaa ttgcagcgtc ctgaagctag gatagtggaa caagaactag t 411

<210> 2511
<211> 290
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H4

<400> 2511

acgcgtcagc ggaaacgtgg gcggacgcgt gggaagaggc aaatacggga aagcagtaaa 60
agaagaaaga gaaaggaaaa aactgagtat caggaagaaa agagggagta gatgaggaaa 120
gaaagatcaa ggaagtaaga gtaagagaag gagtaatgtg aatgaaagca ggaaagtatt 180
tgaagaagag agtgtaaagc gcgtaccttt tgcataatgt cccagcgagt gaaagaggaa 240
gcaaaaagaa agaaaaagaa gtagccaggt aagacccgaa gctagttgat 290

<210> 2512
<211> 336
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H7

<400> 2512

cccacacgtc cgctcacgcg tcagactcga ccaaagttgc aaacacattc gtttccagat 60
actcttatat ggctcggaag tgtctgaaac ttcagctctc ctatatgtat acccactgga 120
aaaacattta gcttccttga tggacatagg tatagagtac cagattgctt caagtgggtg 180
cagaatggta acgacgatgg atcgatatga aggatattgt gcaaacgtac aaagaggctg 240
gcttgcctcat gtgctatctg acacagaatc taccacgaca ttttcaagtg cttctgatgc 300
tattcagatc ttccgtaagg aacataatgg agttat 336

<210> 2513

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H8

<400> 2513

cccacgcgtc cgcccacgcg tccgcccacg cgctccgcca cgctccggg cgctgggtgg 60
tggtttgggc tattgtgtcc ctactacga gggttggttt tctgttggtg tgaagacttt 120
gtttagcaac ttgtgtgcaa aaaatggtca acttggttga tactgatgag ggacgaaacc 180
tgttaaaggg ctaccaactc attttatatg ttgctatgtt ggctttctcc gccactattt 240
tggggcttat ggggaatccc atgtttaatc tctatctaata tgccaatgaa tatagacacc 300
cggtatctag cgaacctttt gtaccattg acaaagtga gaacgt 346

<210> 2514

<211> 301

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-A1

<400> 2514

agcccacgcg tccggttgta tagtaatatt ttaccgtatt tgaacaaaag attggacggt 60
atctattgtc atcaaccacc gcttgacagc attagaaatg aaaaccgaaa agatatattg 120
gccaatgtta ttatcgatga acaacaatat cgattgtctt tgaccaatac tgccaaattg 180

ttatgcattg ctgcttatat ggcttctcat atttcccca aacgagactc gaagatattt 240
 acaaagaaat cgacgcgtgt caaaaaacat cgcaggagaa ccaactcatc cactctgaca 300
 g 301

<210> 2515
 <211> 338
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-A10
 <400> 2515

aacaactagc ccaaggatat aaagaaggaa ttcattggag tagaagaata tttcatacaa 60
 ggaatggaat attggctctc ctgctttatc atagagataa agtggttgtt caaaaagtgc 120
 ttggatattt attagtattg ttgatattgt tggagtgtat tcggttgcat agtagttggc 180
 tgaatgagtt ggcaagtcgc ttattttata ccattatgag aaagaacgag actagacggt 240
 tcagtggaaat gggttattat cttgcgggag tcctgtatgc ttctgttat tttgactcgg 300
 ttgtttttga tttgggtgtt attcatttgg ctattggt 338

<210> 2516
 <211> 333
 <212> DNA
 <213> Cyanidium caldarium -
 <223> Clone ID: LIB190-051-Q1-E2-A11
 <400> 2516

ggtcaggagt tcccggcacg actaagccga agcgtcggcc caagcgtctg gtctcattgt 60
 agtcgtaatt gaggaatacg cagggcgaca gtaacgaggg gaatggttat aagacagtat 120
 gtgataccga gtcgtgtatc gcagctcgtc ggcgagtttc aagagcgcaa ggctggatgc 180
 aactttacat agaacaccgg gaagtacgac cgatacatct gacatctatt tacctgtatg 240
 tgtccttcat cggtcattat gcctttattg aagggtgtcc ttgggcggca agaaacaagg 300
 ctagtcattc cagtagaacg ttttatgacc ttg 333

<210> 2517
 <211> 378

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-A2
 <400> 2517

gcgtcagccc aagcgtccgg ttgtatagta atattttacc gtatttgaaa caaagattgg 60
 acggtatcta ttgtcatcaa ccaccgcttg cagacattag aaatgaaaac cgaaaagata 120
 tattggccaa tggtattatc gatgaacaac aatatcgatt gtctttgacc aatactgcca 180
 aattgttatg cattgctgct tatatggctt ctcatttttc cccaaaacga gactcgaaga 240
 tatttataaa gaaatcgacg cgtgtcaaaa aacatcgag gagaaaccaac tcattccactc 300
 tgacagaagc cattcccttt cgttttagaaa gactgttggc tagttatcgc gtcattcaac 360
 aacaactggg ccaatcat 378

<210> 2518
 <211> 110
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-A4
 <400> 2518

agccacacgt ctgacaatga gttaggacac gagtgtgagt gacgtctaga gcaggaagta 60
 ttccttcata acttttcgta ctaactgtct tttggtatag tttcttgtgt 110

<210> 2519
 <211> 245
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-A5
 <400> 2519

gcgtcaaccc acaagtccgg ttgtatagta acattcgacc gtagttgtga taaagattga 60
 gcagtatcta ttgacaacac acaccgcttg cagacacata caaatgtata tatcggtgac 120
 ataatggatc cggtaaatat cgaattttta ccatcgactg aatgtctctg tccactactg 180
 ccaaaatgtt cggcaccgct cctcaaattg ccgccacac caccaccg cggtattoga 240
 caatg 245

<210> 2520
 <211> 350
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-A7

<400> 2520

agcccaagcg tccgtccacg cgtctgcgca tgcgtccgcc cacgcgtccg gttacaatat 60
 atcaaaagtt ttagattgga tgaatgctga tgaaatgtta tcgagaggct ttaatgaaca 120
 tattttatgag gttttccaat ataggcctgc aactgtcaa attggcactt ttctccgcca 180
 ttatgccgca agatgtacta aaaatgacgg agaagtttat gagagatcca gttgtgattt 240
 tgggtgcagaa agatcaactt aactggaac gtatcaaaca atactatata ccactggata 300
 tcgacgagta caagtttgat actttacgtg acctctacta aactttgact 350

<210> 2521
 <211> 394
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-A9

<400> 2521

agcggacgcc gtgggcgcg acatagaatg gcaacagata aagtcagcta agaagatata 60
 ctcttatgta aaagaatcaa aaactaaaga atatttgagg ctagacgatt cgttgcagca 120
 gccagtggat tcattctgta gcaccaagtg gctgtttatt gcaacccac tgttgaagt 180
 tgcttgact gatgggcagc gaattgaaat gattccttg aagaaagata taaaggaatt 240
 gtttttctt actttaaaga agaacttga gtcgaacgaa gcgtcatggg agtgcagtgt 300
 agttgaaacc gcagttgctg tttttatcca gtattatgaa cagtgtgtgg aacagtacta 360
 tctagcaagc atagattatg agctacctgg ttat 394

<210> 2522
 <211> 380
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-B11

<400> 2522

cggcacgcat cagcccacgc gtccgcccac gcgtccgttc cgattccggc aaatgaggag 60
ccttttccaa actacgcata gtatggatag acgatacgag agagggatgg gtatcgagtt 120
ggggatcgta ctacatggca aatgtgtgtg gagtaatgat ttatcacgat agacactgtc 180
ttcactaacg ctagaacagg agaaacgaga gaacaacagc tacactaatt acttttccgg 240
tctctacact ttattcctgg tgaacgaaaa aatgcaaggg acatgaccgc agacagctac 300
ttgggttgta tccccccaga ataaacactt cctaaactcc catatgtcac caatacacgt 360
gtaaagattt tactggcatt 380

<210> 2523

<211> 399

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-B12

<400> 2523

cgcgtcagcc caagcgcccg cccaagcgtc cggaagtaaa tagacgtttg aaatgcgtct 60
agtatgaaaa gagacacgag tgtaacactg tccaatcctc caactcagcg aaacagcagg 120
aactgtgaaa atgcagttaa ctagcagtat gacggacaga ccccaaaagt cttgactaga 180
taggttcacg gaggagagag aatcatgaag tacaggaggt ggggtaagac atgaacgacc 240
actgcatgag gataacgaat ctgactgagt aaggaacctt agcttaagct agtttggctg 300
gggaagttta cctaataaag agtaacttag gcaagcatag gcatgagaga agtataatag 360
cacacgcatg catgaagata aagagtgaga tttcagaaa 399

<210> 2524

<211> 368

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-B4

<400> 2524

cccaagcgtc cgtttccaac ttatgtgcgt gcagcaggaa cgactattac tacttggttt 60
gtgaacgctt tcaactttgc gctttcattc tcgtggcctt ctatgaaggc tgcatgggga 120

cctcaaggag gtttcggatt ctatgctggt ttcaactttc ttggcatcgt tatgcagttc 180
 ttattcttac ctgaaaccaa gggctttaca ttggaacaaa tgagagtcgt gtttgaggag 240
 ggtttattca ccatcgcagc ttatcactgt cgtgctggtt ggagaacact tcgtaagctt 300
 ttgggacttc cagttccaga cactcctctt gtttctccct atgataaggc ctacgctatt 360
 gaccgcgc 368

<210> 2525
 <211> 312
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-B7
 <400> 2525

aacacaacta ttctttatctt tcgcaaacct tgtgccttca ctcgaaaaat gtgtcttcct 60
 ttgcaaaaat cggcatactt ttgcgtcgat aataatgcgc aaacgaaaga ctagcggcaa 120
 gagctaaaac aggggcacca acagtcagtg atggacaaac ctcaagtgga tcaatccacg 180
 ttggtaaaga tagacttgtc tcaaggcagc tttaaagtag tctaagactg tgacacagat 240
 ttagaagtgt gattataagg ccaagtttca attggaactt atgcagtagc ggctctgttc 300
 acctggctgt tg 312

<210> 2526
 <211> 397
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-B9
 <400> 2526

gcgtcagccc aaacgtccgc ccacgcgtcc gctttttttt tggtgaaaga acatggcagt 60
 tggaaagaat aaacgccttt caaaaaaagg caagggagtg aagaagaggt tgacagatcc 120
 gtttcttaga aaggaatggt acgacataaa ggccccagca atgttttctc aacgtcaggt 180
 tggaaagact ttggttacca agacaaccgg aaccaaatt gtttcggaat cactgaaagg 240
 tcgagtatac gatgtttgtc ttgccgacct gagtagcaac aaagacgaga gtttggcgta 300
 cagaaaaatt cgtttgcgtt gtgaggaagt ggaaggaaga aactgtttga ccaactttta 360

tggaatggac ttgcccagag acaagctttg tgggctc 397

<210> 2527
<211> 161
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-C10

<400> 2527

ctgtctgcag atatccaaat gtctatcaat actatgacgt tcaacattgg cagcatccgt 60

tgcaagtgcc acgtacgcaa tccatcagag tggtaggaac tatacctcta tagtgagggt 120

gaatgaacag cataatctct aagacataat cttgcggaat c 161

<210> 2528
<211> 149
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-C11

<400> 2528

ccttttctac actttcatag ttaatttaac actcatttct atacaacctg tacgttttgt 60

atatatgagt ggtggttcct cattgttact catagctgag tcgggatatc ttataaaatc 120

caaaattttt cttctcgttt atcaaaaat 149

<210> 2529
<211> 172
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-C6

<400> 2529

acccacacgt caaggagagt agcttggtat gcagcgatgg ataagttcta acagccgctg 60

gttttggtgc agaccgtgcg ttaggataca tgcctgacta ctcaagtacg tgattccgga 120

tgacttccca actgtgctgt aattgcggt aggggtcgat cggtgaaaac gc 172

<210> 2530
<211> 373

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-C9
 <400> 2530
 cgcgtcagct ggagactaga cctagtctgt tgtcgcaatg aaactcactc tgtatactct 60
 gtgtgtattg tctactgtaa ttctgatcat gagagctcaa cctatgatac ctcgctactgg 120
 tcttccttta aacgactgga ttcaagaggt agaggaatgg attccaagat aatttccatg 180
 atctgtccaa ggaaattttg aactattat tcgaggattc actgcattgg gctgtattgt 240
 atccactgac tcattcatat aagtcgacta ttattactcc ttgattctag attctgcaat 300
 ttttttgcaa gtaattgtaa ctatgtatga gagggcaaca gatcattagg agatcgatag 360
 acttgatact att 373

<210> 2531
 <211> 138
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-D1
 <400> 2531
 gcgtcagccc aagcgctccga agaggtgtat gatgcaggca aagaagtgac gcagtagatc 60
 agagagtaac acatgcaagt aggtaaagcg aacgggtgag taaagaggtg tgaaagactg 120
 gaagaacatg agagcagc 138

<210> 2532
 <211> 94
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-D10
 <400> 2532
 cacgcgtcag gtcaatggaa agtattggaa tagtcacttg atacgttgag gtttgcttga 60
 acagtagagt cctacttgta tacttcgaaa gttt 94

<210> 2533
 <211> 154

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-D11
 <400> 2533
 atttcgtggg attccccaga gactacaaat atgtatccac acatttgcta ttaacaagac 60
 ttttacgttt ttatcccttt caatgtctgc aatggaactc tgggacctac atgttctaaa 120
 taaccctggg ggcgttcgac accccttttg tttt 154

<210> 2534
 <211> 317
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-D12
 <400> 2534
 acgcgtcagc ccacagcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgtccgcc 60
 cacgcgtccg cccacgcgtc cgcccacgcg tccgcccacg cgtccgcttg catttggtga 120
 aaagacaaag aacttggtta ttctcagatt cggtttagta ggtatgctga tcggaactta 180
 tgtttccatt atggaaatgc agaaaaatcc ggagtattga attgatatgg cattgttctc 240
 ctctttctct tgttgtacaa gtttacaaca aaaagcccg ctttggggtt tatacttttc 300
 atgtaaattt tcctttc 317

<210> 2535
 <211> 306
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-D4
 <400> 2535
 acgcgtcagg acagaaacgt ttgatattcc aagttgtcac agcaaagatg aatttgagtg 60
 aagaagtgga cttagaagac tacgtttcca gaccggataa aatttctggt gcagatattg 120
 ctgcaatctg ccaagaagcg ggaatgcaag ctgtacggaa gaatcggtat attatacttc 180
 caaaagactt tgaaaaggca tataaaattg tcgtacgtaa agatgagcag gaatttgctt 240
 ttacaaata agacatgatt tgcgaataa agaatgaatg gatgcacaag ttgcactttg 300

caactt

306

<210> 2536
<211> 62
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E1

<400> 2536

cccacacgtc cgcccacgcg tcgggattgt tgaagaaata aacaaggaga atgggtttttg 60
gt 62

<210> 2537
<211> 328
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E11

<400> 2537

caatgcatac agtctgttag gtaactgaga accagagcaa atttgtcaaa tttgagaata 60
atgctaatac agtttttgaa gtagacacaa gcattatagg cctgggctta aacaatatag 120
ttcctcttgg aggacgggga cgatacagac agcaatccct tgcctaattgt ggaaggacga 180
attcttgcaa acgttatcga gtattgtaga tatcactcac tcttaaagac cattccgcac 240
tctgaggagg atattgagcg ctgggatacg gaattcccaa atgtagatca ttttattcct 300
ttctcatttg aatctggctg caaactat 328

<210> 2538
<211> 287
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E3

<400> 2538

cgcgctccact acaggcaatt tccatctttt tcgctcattc attcttacat ttcagtagat 60
gtacaatagt tttttcattg tcaaaaaata ttgcacaatc cacccatcga accacgaaaa 120
agaaagcctt tcgactcttt ctttctacac ggtttgcac aagaagaatt agatacatag 180

aatcatcggc aacggattgg atgctggttt agaggcggtc aaccatagtc cagcaaaggt 240
 agcgtcgtag catggcctaa cggccatgta ggagagcaga ggtttga 287

<210> 2539
 <211> 306
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-E5
 <400> 2539

accacacgt cagaccacgc gtccgcgcag cgaatccatg ttgaaagagg gtacacgtat 60
 attgtcagat catcaagttt cagggtgcttc aagatggaaa acctcaggtg ataacttcgg 120
 atgaagtatt cggaggaaaag agagtagtat tgtgtgggtt acctgggtgcc tttactccaa 180
 cctgctctag gcagcacctt ccaggctttg gacagaatgt tgatgaaatc aaatcgaaag 240
 gagtagatac agtcgcttgt tgagctgtca gcgacgcgtt tgtgttacat cagtgggcag 300
 agtcac 306

<210> 2540
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-051-Q1-E2-E8
 <400> 2540

gacccacacg tcagcccacg cgtccgcca cgcgtccggg aagcagaagt attcgtagca 60
 aagttgggta gctgggcgac agtcatcaaa ctgttctatc agacagtga atgctttcct 120
 aatcaagtgg gaaactacca attacttggt cagcacgagt gaggataact tgaacaaatc 180
 ctcatatgga atgtgacaca acgtatctca actaagaaac aatgtgaaat atatccaaca 240
 acgtcacttt ttactattga gacaaacttg atggcggagc acaaaacaac cacaaaacta 300
 ttgcgtctgc attctacatc ctcgcagttg agatagaaat tccaagccta tctggacagt 360
 ggccagttga agtcatctgt tgaaagaaac cgtttctctg tcaaaccac agacgccgc 419

<210> 2541
 <211> 286

<212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E9

<400> 2541

ttccccgcaga aaattcgatg ctccgacaag ccttggatcg ttttcgttcg atcatgagtt 60
 tatctggtgc agtgacaatg acgagtgtct gtgatccaga gtctcaagaa tattcatggt 120
 cgggattgca acacatgata aagcggcggc agatgtaagg tgaggatatt atcactccga 180
 aaaggcaaga tgagtgagtc actgaggtgt gatgagtccg aaacaaaagt tcgagagcag 240
 tgttgcgaca aatacatcta cttccatcat acgctgtgtt cttttt 286

<210> 2542
 <211> 62
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-F12

<400> 2542

acgcgtcagc ggaagcgtgg gcggacgcgt gggaaaaaaaa caaaaatcac gatgaccgtt 60
 ac 62

<210> 2543
 <211> 342
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-F6

<400> 2543

agcggcattc gacgacgcct tcgagctgga gcagcgttga gtaatttctg aaacacaaat 60
 atgcgtgccca agtggaaaaa gaagagaaca cgacggttga agcgcaagag aagaaagatg 120
 agacagcgtt ccaagtaacg gaagaatcct cggacgtctg agttgaatag agttcctaaa 180
 acgtgggaaa actctatttg caactctggc gcagtgatta tatcctgcta cggaagggtg 240
 gaagtgtttc cgaggattgt tcgcaagtta tgataaaagg ttcttgtggt ttttgttttc 300
 aacttgtaaa tgccacttgt cagtcatttt attcgagtaa ag 342

<210> 2544
 <211> 382
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-F7

<400> 2544

```
agccccacgcg tccgcgctca atatacttct tactacggcg aatcatcctc cagctattat 60
taccgagcag ctgctcctca gagatgggtat gaggaacaat gcacctcata ctgctggggtt 120
ccagtacaga cctatgaaac ttatcaatgt tctcaagaga agaagaagga gtacagctat 180
ccttgtcaaa cttatgagca ggtttcaact acttaccagt gtggtcagta cgagtcccaa 240
caagtttact accaatgcc aaggtataag gaggttactc agcaagaatg ccagtacgtc 300
caagagtcgt atttgtgcga gtatgaagaa tgtcagcaag ttaccagga agtttctcct 360
tcaaaaattg tctactacgg tg 382
```

<210> 2545
 <211> 313
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-F8

<400> 2545

```
agaggttatg cagttgacca agctatttca agtgaggaag atacagtcgt ggtcatacac 60
tttgggtcaag acgttcatcc gacatgtatg ttgatggact aaacacttta cagcgcagca 120
caaatgataa ctttttttgc tgtcctctat tcggtcgata tacgggaagt atctgacttt 180
aactctatgt acgaattgta tgattcttgt actggtatgt tcgtcattcg gaatcaacat 240
attatggtag acttgggtac cggtattaag aagttgatca actgggctat gactgacttt 300
caggatctta ttg 313
```

<210> 2546
 <211> 81
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-F9

<400> 2546

cgaaatatga atagccagat gcgatccatc acacgtaaaa tttatggctt gcagtttaat 60
gtagtgtagt gacctctttc c 81

<210> 2547
<211> 332
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G10

<400> 2547

acgcgtcagc ggaagcgtgg gcggacgctt ggggaaataa agaaactgca caaaaaaccc 60
cgtactttta ccgtagaaat gaccaggcat taaaaagggt accagcaaaa cttcggcagc 120
aaattgagcc atcggaggaa gtactcggcc aaaaaagaaa aggcgtggca gaaatcttac 180
aaaaacacgg tgtccagcct aatcaaagtt tgattgaaga tattgtccgt ttctttcatt 240
aatccctccg tgtttgatgt ttagctgcgg ttcaactaga gttttgtttg ggaacacggt 300
ggatccagta aagaacaaaa gaacttcttt gt 332

<210> 2548
<211> 250
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G12

<400> 2548

cgctacgcc ttcgagttgt tcctggatgg atagtccttt caattgttaa taaaacatt 60
tggtttgtgc ttaattgtcc ttgtatctca aattttattt tggtctcact agacaactgt 120
tataaatggg ggggccgcgc cccaagggtc tcagcttacg tactcattgt atgcaacgtc 180
atagcttcac aattgtgtgt caccttatcg tcacaagttc tgtatgagcc gatcagtttt 240
aaaatctcat 250

<210> 2549
<211> 401
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G2

<400> 2549

acgcgtcagc ccaagcgtcc gaaaaatggt cgtgtcttac tccgtacctg caagaaactt 60
accggctttg gcacgtaact tttccaatgt ctgtctctcg aggagtgggc tgagaggggg 120
atgtttacga aatgtgaaag ttttcaacca gaaacgacct gcaaggttgt tatctacgaa 180
aatgagagga ggcgaccatg aaaggagaga acttagtcgt cctatgcgta cgcttgattc 240
cgctttcgac gaacttttag cttttgcgca ggatccctgg tccatgtttc gctctccatg 300
gagtctgtct cccagaagta tggcagtaga cacgtggatg cctcgtgttg acttggtgga 360
gaaggaagat ggcttttatg catacgtgga actaccagga c 401

<210> 2550

<211> 323

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G3

<400> 2550

cacgcgtcca cattatctgc gttgtttggt gatttcttcg tgggtttgcg tctcaagatg 60
tcctttttga aacgtataca gtcgactctg ctttccaaca gagactcagt aacaaagaca 120
gagtaaggcc aattacgaca tatagcacgt tcgagtttac cgctgggacc ctgaaaaggg 180
agaagaacct gaattggtta cctactcgat tcctctcaaa gaatgcgggc ctatggtgtt 240
ggatgcctta ttcaaaatat agaatgaact ggagattact tttgtatgta gaacgtcctg 300
ccgagacgga atttgtggaa gtt 323

<210> 2551

<211> 101

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G6

<400> 2551

accacacgt cagcggacgc gtgggatgtt actgttgcat tatacgagag agaacagtgt 60
aagggtatag gaagtcagta tactggaacg agaatggtac t 101

<210> 2552
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-051-Q1-E2-H1

 <400> 2552

 cacgcgttca cccaagcgtc cgacaaagtg tcgtttacaa aagaaagtat cacatattcc 60
 ctcgtattgt gtgaggatga gttgggttgc aactttaaaa tcttccaaaa tagaaggctc 120
 ctctgctatt ccagaagggtg aacagcctga cctccatata aagtgggagc agtggtttaca 180
 agagaaaggg tcaccagagt gccaacagtg tcaaggttca ggacaaatac catgtcctgc 240
 atgtgaagga aagggttatt tcgtgatgga agttttcaat gttacctcta gtaaccagtg 300
 tcaagtttgc cgtggacacc gtaaaactcc ttgcccaact tgtaaagaat acatttatcg 360
 ggcagtaaaa gatttatgat ataaagtata gctcaatctt taaaaatgga aat 413

<210> 2553
 <211> 400
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-051-Q1-E2-H10

 <400> 2553

 catcaggtcc aaatgtcgcg ctcttcggta caaggtaaaa aggaagaggg agttgccaat 60
 gggacaaggg ttggtacagc ctttggggac ggacttttgc ctcaaagtca ctctgtagac 120
 ttgtcgtctc agttgggcac cgcagcggaa agtgaatttg tcgtcgacaa tgcacacgat 180
 actgagaacc atcaagtggg cgatagcacc attgaactga attccaatac cgaagtgggt 240
 cagaccaag tagaagcgac tcattcgaca ggtggaggcg cagcacttcg agataatgtg 300
 ctgggaatgt cggatggcct cacagttcct tttgcactag cagctggaat ggctgggtgcc 360
 ttttcaagtt ccaaggttat tgtattggca gtattggcag 400

<210> 2554
 <211> 187
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-051-Q1-E2-H11

<400> 2554

ttattggaat gctccactta ctgcagatgt ggtatcatcc gataattgga gtcgtcccta 60
gtctcgtcag cttggcagca tattctgtca aatgggtctcg tgcattcaca ttctggccga 120
gtgtgagtag aacagacgat gcttactgtg ataagatctt ggtttgtacc tggcccccta 180
tggaag 187

<210> 2555

<211> 318

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H12

<400> 2555

agcccacgcg tccgcgaaat ggtcactcac gcaaggcaaa cctaagacgg cccccggacg 60
aaagaaaccc aaggggaaaa ccgtgtgaaa aacaaaatgt tacaacaggt ttttcaagag 120
ctcgtacaca caataccgag aaaggtgttc ccacatgtgc atcaciaacc ccggaaattt 180
ctttgacatc aggtgaacaa acgtgtcttg caaagtgtag ggatcgctat ttagatgcaa 240
gggaactcgt tccaaagact ttaatagaga gaatttcacg taactcaaac aattgtgtgt 300
gagatccgag gattttttg 318

<210> 2556

<211> 367

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H2

<400> 2556

attgaaaatc atggtagaca ccaagcttaa tgacggtgct agtgctgctc tttggacttg 60
ccgcctagtt ctctatacaa ttgtgttagc attttcagca acaataattg gacctgatgg 120
aacgaaagca gataacatat ggaacgatgc cctatattat catggaaaag tggatgaactt 180
ttgtgcatat tcagcgtcat cagtatttga aagtggcgac catggcgcat gtcaacatgt 240
gatggcattg gcttctatca acttgattta agtgttctat cgttggttgg acacctttgt 300
cgacgcattg tatccaattc ttacagagtt ctggtttgtg gagcttggtg tcatgatatt 360

ccttact

367

<210> 2557
<211> 210
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H6

<400> 2557

aactgaatat caggatacat gcatggagta catgaggaac gagagatcat cgcagtaaga 60
ataatacaac gagtaatgtg aattggatca cgaaagtatt tgaagaacac agtgtaaagc 120
gcgtaacttt tgcgatgatgt cccagccagt gaaagacgaa gcaaagagag agaaaaacaa 180
gtagccaggt aagacccgaa gctaagtgat 210

<210> 2558
<211> 433
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-051-Q1-E2-H8

<400> 2558

gaccacgcg tcagcccacg cgtccgcca cgcgtccgc cacgcgtccg cccacgcgtc 60
cgggcgctgg tgggtggtt gggctattgt gtccctcact acgaagtttg gttttctggt 120
gtggtgaaga ctttgtttag caacttgtgt gcaaaaaatg gtcaacttgt tgtatactga 180
tgagggacga aacctgttaa agggctacca actcatttta tatgttgcta tgttggtttt 240
ctccgccact attttggggc ttatggggaa tcccatgttt aatctctatc taattgccaa 300
atgaatatag acatccgat cctancgaaa ccttttgtac ccattgacaa agttgaagaa 360
cgtcactttt caacaagtcc tctctccttc tgtgcctggg gtgtcacagg agatcgtagc 420
cgtggcatgc aat 433

<210> 2559
<211> 84
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H9

<400> 2559

acgcgtcaga aaaaaaaaaa aaattcaaaa aagaaaaaga aaaaaggaaa cagaagcagg 60

acgctcaagg acgatggcac aaaa 84

<210> 2560

<211> 373

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A10

<400> 2560

cccacgcgtc cgcccacgcg tccgatcgtc ttccacgcgg aagtaatatg atcgatcgaa 60

cagcattgcg caatgttgga atgcagtatg taacaaccgc ggatgatatt ggacatcgct 120

tggtcgtaga gatccaacta aaggaatcca gcaaatataa tagtcacatg aaggaaggag 180

aacgaccaaa tgcgggttaca gatatcattt ctacggaccc tgaaatggat aggaaagtat 240

ctcagtgggt gtcggaagga caaaaggcat tcttagtaga agatgagttg acgggtgaac 300

gtcgaggaat attcttaagc tcaaccaaat tgaaagttca gaaacaagcc agtcaggaac 360

gaaatagcaa tca 373

<210> 2561

<211> 392

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A12

<400> 2561

cggacgcgtg ggtgggggtt tcatgttgtc ttccaccaga gacgacatct cgacgagtag 60

tactgtgaaa ggtcaagtat gggcagagtc tcctgatgaa gaaaccaagc agtgtttgca 120

atctttacgt tccaaagtac aatcgatgga cttgactcca aaagagttgg aatgggtgtga 180

cgacgcttgt ctcttgagat atttgcgcg tagaaataat catgtggaca aggctttgga 240

gttgataaga agaacgttac agtggcgaaa ggaatttgga gttgaagaaa tgatgaacaa 300

cgtacctgct ccagtgaagg aagaaggtgc tagtcaaaag ctgtatgtgg gaagaaagga 360

caaatatggt cgtcctatca tttacatgaa ac

392

<210> 2562
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A3

<400> 2562

ggcacgcgta agatgcaggc ggcccttgat gggatattat gctttggcaa ataccaaaga 60
gcctttattc gaaagtccaa caaagcaatt tgacttgccc tcaactacgaa agactttctt 120
ttgtattggt ccggttggtt taagaagcgg ctagggggga gggttgggag ttggctgtgg 180
gctgggcttt ggtcgtgggt ttgctttgag ggggctgtgg agtcaacgtg tcgggaggac 240
cgggtggtatt cctacgcagt tcttgtatgg ttgcctttt ggacattacg tttctggggt 300
tttgcagaac ttagctcgaa aatttcctgg aagttcaaca ggtattggct gtggtttttg 360
tttgggctat ggcgttgga ttggtctac 389

<210> 2563
<211> 395
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A4

<400> 2563

agaagcatcc aaagcagttc ttacaagact tgaatcttat ctgtgaaaat gcttttcatt 60
ataatgagaa gaagtcggaa gtttatgagc ttgcacagga gttgaaaaaa cgagtcgaga 120
acttgatgaa gccagttttg ggagagtggg ctgctattga acaagcaatg actgaggata 180
gtgaaaaggt gaattatggg ggcggggcgtt cagaaacacg gggaagtga gttatccccg 240
caccaagtcg taggactaga aagaagacca acactagtaa ccgcgattcg aaatcgtcgg 300
acaacgtgaa ttcagtaaac gttgaagttc acgagagcaa gtcaccaa at gctgaagatg 360
ccaaggttgt caatatgtcg acaactgaaa atgat 395

<210> 2564
<211> 199
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A5

<400> 2564

cccacgcgtc cggagatttt gcgcgccatt tctctcaatg gaagcttggc gaggtggtat 60
gaagagaaaa atttgtagtc ttgcgaggca gcattcctcc aacaaggggtg gaataagagg 120
caacatgtgg gacagaccac aggagatact gcctgatgat aaaccaatat tttatggaaa 180
aaaaagaaaa agagggggg 199

<210> 2565

<211> 408

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A6

<400> 2565

attgaagctg ctgcttcttt atctgaacca tcagtagcca attcgcttcg tcatcgtttg 60
tcagagctac aacatttgca tgacgatgga aagttacttg gtgatgacta ttagttgaag 120
cgtgcgcgac ttttgagagg cttctctggt tctagtctta tgcaaaaagt tcatcattta 180
ctttcttgta cgggaagcgt gcttttcctt gtgtcgtgcc ttgtccaaat tgggatataa 240
gacagccatt ttatcttcag gtcctcattt cttggttgaa catgtgaaac gcactttagg 300
aatggtaagt tatttttgtc tcgagcattt gactttattt aggattttgc atatggaaat 360
acattcgaaa ccgatgcgat gggcaatttc actggggaaa taagtcag 408

<210> 2566

<211> 423

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A7

<400> 2566

aagaaaagaa gagaaaagcc gtactgaaga ccgacacagg tactcgagga gaaaggagac 60
ccaaattaag gtgagagaat ggacgataac gaactaggca aaaggagatg gtatcggcgg 120
tagaacatat gaaagaggcg gcagggggagt gtttagcaaa aacacagcac tctgcagaaa 180

agagaaaatg tagagtgggg gagtgtgcgg cctgccaaagg agtagagaag aaatcgatga 240
aagtgaaagc gagtaaaaga tgaggtatag agaatggcgg tcctaacagt aaggatccaa 300
aggtagcgaa gtaaatagac gtttgaaagg cgtccagtat gaaaggagaa acgagtgtag 360
cactgtctag tcgtccaact cagcgaaaca gcaataactg tgaaaatgca gtaactagc 420
agt 423

<210> 2567
<211> 415
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E1-A8
<400> 2567

agcaattgag ctagtgaaac tgggtggaaga atgactactt tggactacaa tatagcttca 60
actccgttta cagggccacc ttctacactt cacactggta cagtaaagct ggataatgag 120
gaaatagagc gttattttatc tcaactgata acagagtctt gcaagcccct tgcggaagag 180
gatgtcaaaa gactgtgtga taaagcgcg ggcggttgta ttgaagagtc caacgttcaa 240
cctgttagtt gtccagtaac tgtttgtggt gatattcatg gacagtttca cgacttggtta 300
gaactcttta aaataggtgg caactgtccg gaaaccaact atcttttctt gggggactat 360
gtagatagag gatattactc tgtggaagca gtaactgccc ttgtttgttt gaaaa 415

<210> 2568
<211> 346
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E1-B10
<400> 2568

cccacgcgtc cgaacttgac atgcaacaaa gtaaccttcg agtagtccaa tcttcttttg 60
tggcaagctt tgtcctcatt ctaagtataa tctgtgccat tcatgcagta acagccgatg 120
aaataacaag tttcgagaga ggatacaaaa cagttgcacc aactcagacg cagcaatgtc 180
aaaagatttg tgtcaccgcc acacaaactc aagttcaaag ttgtatttat actcagacac 240
aggctccgtt caggtcccaa tgtgtcaaag cattgccaac tacctgctat aaataacttaa 300

caaaatataa gcagggtgtgc tgtgagcagg aatacgagca acagaa

346

<210> 2569
<211> 254
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B11

<400> 2569

cccacgcgtc cgatctagtc aaaacaacaa cagatggcag caaaaaactc gattacttcg 60
gaagttgtag attcctctcc tagtcctatc gttgcaatag caatcgtaa ctctcgaat 120
cggcctcttt tcaactgaac atatgaacat cctgacttgg tgctgcctag cgctagaaca 180
ggagaaacga gagaacaaca gctacactat ttacttttcc ggtctctaga ctttattcct 240
ggtgaaggaa aaag 254

<210> 2570
<211> 396
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-052-Q1-E1-B12

<400> 2570

cccacgcgtc cggaatattg ttgcaaggcc agggcagcac agatatcaag ttggaagccc 60
gaaacagtta ttgtcgccgc gttctttgtt ttactacaa acattataat ggaattgggg 120
caagaaaact ctagagttcc taccctccc ccacaactgc acctaatttt tgagcgaccc 180
ggagctctca atactggtgg tagagcagcg atggctgcac tggcttctgt tttgtctgga 240
aaaaaccttg tgatacaacc caactggatg gacaacgagg ggtgtaacaa atattgtatg 300
gataaacggg attatatggg atgctgtagt ttggtacaa tacctgaaga gtggccgttg 360
ttggagtgga acgcggaaaa tattccncga ctgaat 396

<210> 2571
<211> 345
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B2

<400> 2571

agcactctat tatattggct atcaaatcgg agtatcgcct ttggcttggg ccatcaacgg 60

agaaatztat gaattgcacg tgcgcaattg gggaatgtcg tggggtgcag ccattctttt 120

gggtgcggca ttctcagtga gcgagggatt taccagacaa gtacgagcat ttacgaaaac 180

tggagtattt ggattgtgag gaggagttag cctcattttc tggggtatcc ttatcatttt 240

aatgcctgag acaaattggaa gaacgctaga agatattcga aatatattcg atgaacgttt 300

aattggattg gcaaaataca actggagtca aaccaaaca tggat 345

<210> 2572

<211> 412

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B3

<400> 2572

gcgaatggga gaattgagca tctttcgtcg tacttttagct gaaaatatat cgatgcgac 60

tgttgaatgc aacagcattt caaatatgga acttgaggtg aagaatgttc ctgcattttg 120

cagaacagct ggcgattcag ttgagaaggc tgacttgtcc aatgcttga aactattcta 180

tgagcattat ttgtcaggag acgcgattta tttgcatgaa ggggaaaact cttatgggcc 240

tggggttctt attcgtatat ctgatgtcat gcagagttct tcgattactt gtgagggaga 300

accatcctcg gaacaaatat caaaccttt acagaaacaa aagacctact tgataggtat 360

ttcattgaaa tgttttgatg attcatgttg cactgtaagc catgatataa tt 412

<210> 2573

<211> 415

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-052-Q1-E1-B4

<400> 2573

agctatttga tgatcatttg acatttcttc aacacaatga agtgagctcc ttgttgaatg 60

tgttgtataa gctttctact agtgtggtaa ctattgcata catggaacgt ctccttgtgt 120

tgcaacgtat tcgatactgg ttgttggttg ccagttgtat gatgggtgtg gcttttggtat 180
 ttatgttgat gtttcgacgt tcgtgttggg agcgtgatga gttgtattac aaggccaaat 240
 ctgtttaaag tcaatgttgc tatttgtatt tgaaaatctt tttttctttt tggaatatgc 300
 tgggtactagg ttgttgttgt tgtatcgagt gacatgtatt tcgtctttgg acaacacaag 360
 acatgtgtnt ttgagtagta taatanatat gcaagacggg tcgagacaca cacat 415

<210> 2574
 <211> 417
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B6

<400> 2574

caagcgtaga gcagaagaac tgggtgtaaa ggctcgagtag tagagtaagt gtaaaagggga 60
 aaggaaagga gagaaagagg aaagggatcg aatgcagaga tctcgagaga aaggcaggaa 120
 agaaaagaaa gtaagagaga gggatgaggg gagaaagcat aggaagtgaac acggattagg 180
 aacccgtgta agcggaggcg ggaggagaaa gaatgaggag gaaaaaacgg agtcattcca 240
 ccaggggagt aaaggcgcaa gaaagaaacc caaagcaatt gacgggaatc ggaaaaaggg 300
 gtggatcacg taaattaatc cgatataaac cgagaacctt acctctccaa gaaagtgttg 360
 cacggctgtc gaaagaacgt gctgtgaagt gagagaacgt acgagaaagc caagtga 417

<210> 2575
 <211> 407
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-052-Q1-E1-B7

<400> 2575

cccacgcgtc cgtttgtggc attgttttga aaaagagagg cccatcctca cactactac 60
 gagagaagaa accatgacta cgagtttaga aagaggagaa gaaggcggtg cacagcagga 120
 agaagaaaat attccggagg acggcgagga cttggccacc tatgttcaaa acttgttgtc 180
 tcagatgcag atgggtggtg gaggcgatgg cagacgcgag ggtaggcaga attgacgaga 240
 tgggtagtcg tatacacgaa ctggagaaga gcatcgatga gttgatggaa cagactggag 300

taaaggaagg cgatggaaca gagtctggtg aggttactac gacaagtcgt ggggagtgaa 360
tgcttcgggtt gtagtacgtt ggatatcntc cagagtagct cgtacta 407

<210> 2576
<211> 417
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B8

<400> 2576

cccacgcgtc cgcccacgcg tccgcccacg cgtccgggag gtgatttcca ccaagtcaca 60
aagaatcgta aaagagaaaa tgacgatagg ttttgtacat ccacttggaa ctagtggtca 120
atgtaacaaa cactacaaga ctgctacttg ttcttcccag ttttattcca agtcttcac 180
gtttctaggg agaaaccagg cgggttgcaa gtcgtggtct cttgcctatg gaagcaaggt 240
ggatcagaac aagtacactt acagtcaccc tagttccgta aaacaaggaa gaggaccaac 300
tatggttgct tcgaaaacag agttggaaca acaagtaaga tccagactag tcaagttggt 360
tgagcagaca ccttgcacgc ccatcatggt gagacttgct tggcacgacg ctggaac 417

<210> 2577
<211> 366
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-C1

<400> 2577

cggctcgagc cacgcgtagg cggacgcgtg gggtgaggag gaagaactgt ggaacttgct 60
gttgtctggc agcgccactg ttgttgcgaa gacactcgtc gctccaatag atacggcaaa 120
gattttgtgg cagggtgagg cagttactcc tttgccctgc ggggcggcgc ggtagaactg 180
gtttggaggc tcttaaaagt aagcggacta ttgagagggg gtgagaggag tgacgttgaa 240
ggaggggttc caatagaaca gggattctgg gcagattgga gaggaaatgg agtgaatcta 300
ctgagaacga taccagggtc tggcttcaag ttgttcatct acgaatactt taaagattaa 360
ttcttc 366

<210> 2578
 <211> 179
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-C12

<400> 2578

cggacgcgtg ggcgtattcg cgcaatgaga ggcaacgtga ctatgaagac agaccctttt 60
 tgaagttggt gaaaccactt cgtgaccgtc ctatcagttt tatttcccca aatgatgaaa 120
 atagcaggat tcctcattag ttggatagta caataaatag ttgttgagct ttatgttgg 179

<210> 2579
 <211> 415
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-052-Q1-E1-C4

<400> 2579

agataatggc agttaggcaa tgtttgctta ttttcatatg tctttcagct ctgttagggt 60
 caactttggc tgcttctggt gcaacgtcta tttagtcggt gcttcagact aaaagagacg 120
 agacttttac agtccaaagc agagagctgg ctaatctaac agacgtatac aacagcagtg 180
 tattggactt taccttccgt gcgtgcaatg aactgcttg ggaagaatcc agagccaatg 240
 tcaactggtgc acttagtgca gcaaaacaaa acgtaacagg agcaatagcg tttctagaac 300
 gcttgatagc agcaagcaca gtgaataaaa cgggtggagtt tagtaagctc tctagtggta 360
 cgaaggaggt tgtttcgctg gcaggtttac cgcttaattt caccganaaat tctac 415

<210> 2580
 <211> 414
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-052-Q1-E1-C6

<400> 2580

ggccttgtgc aagtcaacaa acatagaaaa gtaaagagat tgcaagaaga taatattttg 60
 aatagagcac tatcacaacc aggagatgta tttctgtgct ttgcaacat ccagttgttg 120

gtgaatgcag aaagagcgag tatgaggaaa tattacttgt ccagaaagta tcgaattgtg 180
 tcgtctatta gctggacata gagegggttg gttcgatgaa gatttggatg actttcgttt 240
 ggaagctatc ttgggagcac tattgtgtac ttgttattgt gagtggaagc gttttgaagg 300
 agaattgggg gtacaagaat ggaatgaatt ggagaagata tcttccttag atacttgga 360
 gcttgtgctt ggtacaagac anagagtga taatatgtta cagcgagtac acaa 414

<210> 2581
 <211> 415
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E1-C8

<400> 2581
 acccctttgt ctttcggtag agagtgacaa ggggttgccg taccaagacg gcatgtctat 60
 gcgctcgggc gacacaaaac gagaataacg agggcaaaag acggaatgcc attcgataga 120
 gagtaaacad gcgtgacact gggaatgcaa caaccgctgg ttcgtctttt gcatagccag 180
 ccggtcgtgt cgttgtctcg ggcgagttag ctccggtgta gcaaggctac caagccttct 240
 tgcaatcgtt caggctttat gtcgattgat agttcaagtg tattttggaa aaagagtaat 300
 acaaggacga cttggcttgc atcttctcgt ttccttcttg gtttgctagt gctgtaagtg 360
 ctcagggaaa cctacagtga aaccgaaaca atcgagcgag gttttgctat gacag 415

<210> 2582
 <211> 339
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E1-C9

<400> 2582
 cccacgcgtc cgtctttttc ttgttggctt ggtccgactt gcaaagagga tgatgaaacg 60
 agacaagatc aagtcttggc atctttccca gtcttatcca gtggcggtag aaaatagaat 120
 caccgaatgt cttgctttat tacaaaaatca acccaacaat attccttgct atatccaaca 180
 atatggaata cccgaagtgt ctggtttgcg tgctttgata tggaactgtt gcattgaaaa 240
 attctttgcg gtcgattcta ctacctcttt gcacgttgct tgttcacgt attgggaatc 300

gategcacaa tatcagcaac atccaaccga cgacccact

339

<210> 2583

<211> 430

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D10

<400> 2583

cccacgcgtc cgagtctgct ctggttcgag ttttgaggag aaggaacgtt gcaagtcaaa 60
gcaacccatt ctcgatatgc tcttggaataa ttcggcaggt ctgcatcaaa atgttttccg 120
tgacttttct atgtggaaaa gaaaagaaag gacattatat ctcaaagatg atctaccagt 180
gatggattac aaattcatct tgatgagttg ggggtcaacg atccatatga aatgaagtct 240
caattatgga aatgacttgc caggttaatt tcttagcatt catttggctt ccttatactg 300
gaaaactccg atggaaagtt tgtggataaa ttcagtaaaa agtataacag cagaatactc 360
taatgggaaa catttgtcga aatttgcgtt ttgtgaaaaa ataactggaa gtttcaaagg 420
aaccgctgca 430

<210> 2584

<211> 404

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D11

<400> 2584

cacatttggc gggattccga gagagtgcac gttgttataa caaacgtttg ctgttgacaa 60
gacttttacg tttttatcct tttcaatgac tgcagtggaag gtcttacaag taaatgttct 120
aaataaccct gggttctttc gagaccggtt ttgttttgaa ataacttatg aagtgagaga 180
agcgttacaa caagatattg agtggaagat aatttatgtg agttgtgcca aagacgagag 240
tttgacacaa gttttggatg aagtacttct tccagcagat acggtgggtc gttttcagtt 300
tactttggag gtctcagcac ccaatccaga caaaatacct agtgatgact tattgggtat 360
tacggcagta ttgatcactt gttcctacaa agatcaagaa ttca 404

<210> 2585
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D12

<400> 2585

cccacgcgtc cgaagtttct tgggtctaggc agtctcgtat ctgagcgtcg ccatgacaat 60
 gaaaatacac ttttggcgac agaattcacc tttcagtatt ctgagagcag gcaaaacacc 120
 ctttttagta caatatccat gctgcagagt tcgaatgtaa taagaaaaat cgctcatttt 180
 ggcgccctgat cgaggcttgc catacgcat tctcatcgc tggaatggaa catttcgagt 240
 tattttacta tggtgagaag aaggctcgtc cagtggcgac atttgtcttc aaaataattt 300
 tttgcgagaa aggaaaataa cgtgagagta taagtacggc caagaagagg catttcaa 360
 gaaaactaag atggaataat acgtttacta gtttcgagtt ctgtcaggga aaaatg 416

<210> 2586
 <211> 523
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D5

<400> 2586

gggggggggg gggggggggg gcgggggggg gggggggagg gggggggggg gtcgaagtct 60
 ggcgccggga tgggtaggac ttccggcggc gaccacgcg tacgaagtgg gaataatagc 120
 atggatgagt ataggatcat tgggagtata tggagtaata ataggaggat ggggaagcag 180
 ttcgcagtac agcataatgg gaggttgagg aggtggagcg gagatggtat cgtatgaggg 240
 agggggtgga gagatctcta gagaaaggca agaaagaaa gaaaggaaga cacgcggggg 300
 gggcggggag aaatcatatg ggagtgaac ggattacgaa cccgtgtagt cgaggcagta 360
 gaagaaagaa tgagtaagaa aaaaggaggt cattccacca ggggagtaaa ggcgcaagaa 420
 agaaaccaa agcaattgac gggaatcgga aaaacgggtg gatcacgtaa attaatccga 480
 ttacaccga gaaccttacc tctccaagaa ggtgttgac ggc 523

<210> 2587
 <211> 416

<212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E1-D6

 <400> 2587

 gtactcctcg aaagctatat aagtagcgta tgcaggaaag aataaggtaa aggaagagaa 60
 ggaagaagca gagagggact atgagcgaga aggtggatag tgcagaggga aaaagcgcag 120
 aagccaagat aaggtatcga ggtgaggaaa gaaggaaaag gagaagaaga gagggtaggc 180
 ttagaagcag cacgcgagag aggagggcgt taaagcatgg gaggaaagaa atccgaaaaa 240
 gaagagaaag aggtaagaaa gaggaccgaa tcagggtaag aggtagagga gcaagaagag 300
 aagagagaat gctgggtgga gtagcgaaac aagagaaggg aagtaaaagg taagaaagag 360
 gaaaggttta cgagagaagg aagtagaaaag aagagagtgt aaggcggcgt cataat 416

<210> 2588
 <211> 421
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-052-Q1-E1-D8

 <400> 2588

aacaaacttg tggaggcaga tgccatcata tttggatttc ctacacgctt tggtatgatg 60
 tgtgctcaaa tgaaggctat gtttgactct cttggacatt tgtggcaaag cggtcagctg 120
 gttgggaaac ttgcgggtat ctttgtatcc accggtactc aaggaggtgg acaagaaacg 180
 actgctttaa ctgccagtag gcagttggca cacttgggaa ggattttcgt tccgacaggt 240
 tggaatatat tgggaataac ttttcatggt ttgtgaatat tggataggat attcttatgg 300
 cagtgatatg tttggtttaa aggagcctca gggaggttct gcttatggtg caggtaacctt 360
 tgcangtgca gatggaagtc gacaaccttc cgaatacgag ttggctagag caaaacatca 420
 a 421

<210> 2589
 <211> 362
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D9

<400> 2589

gggaaaccaa agacatttgg gttgcaaattg ttggaggaaa accacaaagc gttttactca 60
ttgaaaagtt tgtcagttta atggaaaagg aaaaggaaga acgggagaaa tgggcgatgg 120
aagcatggaa aacgcaatta attgtcgatg ctatttatca atccgcaaaa accaagcaag 180
tagttgtcat gaaatattag ttttctttgt agtatttcta aagatttcca tgtttgtatc 240
gtatatgatt actgagatgt aaacgaggag gaagtcagtg tttgttgaag aaagctttgg 300
ctatacaact gggaacgatg acttgtgcaa taaatgtcac acaaagtga cgtttttgta 360
cg 362

<210> 2590

<211> 380

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E11

<400> 2590

cccacgcgtc cggtcgtagt ggtaaatgaa caccgagagc aaaactgtca aacttgtgag 60
tagtgataat gaagtttttg aagtagacac aagcattgta tccctttctg aaacaataaa 120
aaacgtcttg gaagacacgg aggatacaga gagcattccc ttgcctaattg tggaaggacg 180
aattcttgca aaggttatcg agtattgtag atatcactca ctcttaaaga ccattccgca 240
gtctgaggag gatattgagc gctgggatag ggaattccta aatgtagatc aaccaaccct 300
ttttcatttg attctggctg caaactatth ggatatcaag agcttggttg atttaacttg 360
taaacgagta gcagatatga 380

<210> 2591

<211> 377

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E12

<400> 2591

cccacgcgtc cgccccgcg tccgcaagtt cctatgatac tctttatatc tcaaggctct 60

cattacttgg aaaggatggc agatgttggg tttgatatta tttctgtgga ttggacggtg 120
gatattggca aggcgagaga acgcatgggt tcttcttctg gtattcaagg caatttagat 180
cccgtatatt tgtagggac acctcaactc attgaagagc gcacgcgtga gattattcat 240
aaagctggac ctcgtgggtca tattatgaat ttgggacacg gcgtattacc caacacacca 300
gaagaaaatg tagccaaatt ctttcaaacg gtgcaacaat ttcgttggca agaataaatt 360
tactctatta gctgccg 377

<210> 2592
<211> 422
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E1-E2
<400> 2592

cccacgcgtc cgttgttttt cgtaaaagtt ttcattcagc atggctccta aagggtgctaa 60
aagtgtaccc gttgcaggta aaaagccggt ggcaaaagtt gaaaggaaga cgtcgagaag 120
aagagatcgg agacgtattc caggagaga tacaaggttc tgaagcaagt tcctcctgac 180
accggaatat ccgcaaaggg tatgagcggc atgaattcct tggggagtga tatttttgag 240
agaattgcgt cagaagctag caaattagct gcttattcga aaagcaagac gcttacttcg 300
agagaggtag aaactgccgt tcgtcttttg ttaccaggag aacttgcaaa acacgctgta 360
tcggaaagta caaaagcagt aacaaaatac acttcttctt aacggtacaa caagtgtcga 420
aa 422

<210> 2593
<211> 411
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E1-E3
<400> 2593

ccattttcct ctgtcgtgga taggcgatga cttgggttaag attgttgctt acgaggcaac 60
tggcagggaa atgtggaaat ataacactag ttggtagtct tccatccatt cgatcggtct 120
ctagtgttct tccttcatgt gactagtcct tcgcaagtaa cattcaaagg agatccttct 180

cggtgttcc ttcggaggaa agggcaaata aacaaggggg agaagctaatt gttacacaag 240
 atacttccaa aagtacttct ccaactgttt tgcaggatac ttatggcttt gaattaagaa 300
 caggccgagc ggacaggatg ccttcttcgt ttgagcaagc cacgggaagt gaacgagcag 360
 aattggaaga tcccgatata tctcgtaata ctgaaaagtt tgtcaacagc a 411

<210> 2594
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E1-E5
 <400> 2594

cacacattca tgtttgcctt tcagtacagc ttatgttcca gttctattta tctaaggaga 60
 gttgcatgga agagtatcaa ttatcatggt taccctcgag tgtgctgcc taaggagtag 120
 ggtaatcttt ccaaggggggt aggtcaagtg ctgccgatag tagcagtgc aaggaaggtg 180
 tcaagaatat cggggggggcg gagcaacgaa aaaggtggcg aaatatatca ctcagttgaa 240
 gaaaatgtaa agaagggagc agaaaaagta tcagaaaagg ttgatgaatt caaagacgct 300
 gtgcaggata gaatggaaaa tgcagatact tccaaagcaa aagacgtagc aagagatgtt 360
 gtagataagg tcaaagatgc tggacaatcc gtaaaggacg gtgtctctga tgc 413

<210> 2595
 <211> 410
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E1-E6
 <400> 2595

aagaggtgta tgatgcaggc aaagaagtga cgcagtagat cagagagtaa cacatgcaag 60
 taggtaaagc gaacgggtga gtaaagaggt gggaaagagt ggaagagcat gaaagcacag 120
 gagaatgtaa gaaatggtga gagtggaaac cataaaggaa gtaaaagcgg gaatctgaga 180
 ggaggaaagc cacattggga cggaggaaaa ggtccaaacg ggagaagtca gcagtgggga 240
 aaattgggca atgtacaggg aagtatgacc cagtaatgag gagtggagta aacagaaaag 300
 gaagtaaaag gagggaatga acggaagtta tggcaaaaac acgtgccagc agcagcggtg 360

aaacgtgtgt agcaggcgta gagcagaaga actgggtgta aaggtcgagt

410

<210> 2596
<211> 384
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E8

<400> 2596

ggcgtggtg gttggtttgg gctattgtgt ccctcactac gaggtttggt tttctgttgt 60
ggtgaagact ttgttttagca acttgtgtgt gaaaaatggt caacttgttg gagacggatg 120
agggacgaaa cctgttggcg ggcgggcaac tcattttata tgttgctatg ttggctttct 180
ccgccactat tgtggggggg agggggaatc ccatgggggg gctctatcta attgccaatg 240
aatatagaca cccggatcct agcgaacctt ttgtacccat tgacaaagtg aagaacgtca 300
ctttctacaa gtctctttcc ttctgtgcct ggggtgtcac aggagatcgt acgcgtggca 360
tgcattccac ttgccgatgg gtca 384

<210> 2597
<211> 379
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E9

<400> 2597

gcaagtttcc agatacaaag aagaaaattc tatgctccga gaagccttgg atcgttttcg 60
ttcgagcagg agtttatgtg gtgcggagac aaggacgagt gtatgttatc cagagtctga 120
agaagattca tcgtcaaaag tgcaagagag gagaaagcgg cggcggagga aaggggagga 180
tattagcagt ccgaagaggc aagagagtga gtcacggcgg agtgaggagt ccgaaagaga 240
ggaacgagag caatgtaacg aagaagaaaa ttatttctat cacaaacttg attctcttta 300
tttgaagtct aatcggcaga ataatgtgac aacaaatcct gcagagtttg tttcccttgt 360
caaagatatg acagagcct 379

<210> 2598
<211> 388
<212> DNA

<213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E1-F10
 <400> 2598

cggtggattt ccaggcttcg atggagagtc acccataacg ttttacgata tttgttgtgg 60
 aatccgagag acgatagatt tgctttttcc tgcggatcaa gtgcaagtca tagcagagcc 120
 tgggcgttat tttgtttcat ccgcctttac tttggctacg aggattattg cccgtcgggtt 180
 tcgaacccaa tcacaggaag gagacggcag ttgtctgaag gcaggctttt gtttgcaaga 240
 agatatttct cgttcgagtc ttgttgctga ttactatggt gatgatgggtg tttatggttc 300
 gtttcgagat gtgatatctt tgggtgtggt attctatccc aaaacgttta gcagctctga 360
 cgacactgct attgactatg cacgtttt 388

<210> 2599
 <211> 401
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E1-F11
 <400> 2599

cccacgcgtc cggaacaagt tttgagcaaa aatcaaaatt tcaactgtatg ctaattattt 60
 taagtaccaa gttagcatatc aatgttgctg cggagttgaa tcaaacaagt cggtgctaca 120
 ctcttggaag caagctccct caaggcattg atgttccgga aagatgtgaa ttggtcattc 180
 tttgtgaaga agatgttgaa aactttattg gcaaaagtat attgtcaggt ttaagagagg 240
 cctttacgtt gacagataat ccaagtttga aggttattga gaatcccgtc ctgaaagaca 300
 tgggtgttgc tttggaccaa atgagctctga aaagggttgc gtgagttgga atttattggt 360
 agttgttatt ggatagtttt atgatattta tataaagaat c 401

<210> 2600
 <211> 357
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E1-F12
 <400> 2600

cccacgcgtc cgggtcaggt agtagagtaa gtgtaaaagg gaaaggaaag gagagaaaga 60
 ggaaagggat gaaatgcaga gatctctaga gaaaggcaag aaagaaaaga aaggaagaca 120
 cagtaaatga ggcgagaaag cataggaagt gaaacggatt aggaacccgt gtagtctatg 180
 cagtaaaaga aagaatgagt aagaaaaaag ggagtcattc caccagggga gtaaaggcgc 240
 aagaaagaaa cccaaagcaa ttgacgggaa tcggaaaaag ggggtggatca cgtaaattaa 300
 tccgatgtaa accgagaacc ttacctctcc aagaagggtg tgcacggctg tcgaaag 357

<210> 2601
 <211> 350
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-F2

<400> 2601

agcccacgcg tccgcatttt tctttgggag aaaacgacgt cgtcgactca ggggaccgaa 60
 gaagacttcg aaagtagcac ctctcctga agctctggtg aaaaaagaaa aaaagggaga 120
 ggggggaggg gggaaaaacc ctcttttctg ggggggaggg aagaactttg gtattggtgg 180
 agatgtacaa ccaaagagag atgtgactgc gggggcgggg gttatcgcag gggggtgcgt 240
 cttcaaagac aacgaaaggt tctcatgtcg agactcaagg tgccacctgc gatccaccag 300
 ttacgcata ccttgataa aaacgtttcc aaacagctat tccgcttgtt 350

<210> 2602
 <211> 426
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-F4

<400> 2602

gattactagt tctgcatttg agccttcgaa tatgatggcc aaatgcgac caagacacgg 60
 aaaatatatg gcttgctgtt taatgtaccg tggtagcgtc gttcccaagg acgtgaacgc 120
 agctgtggct tccatcaaga cgaagcgtgc gattcaattt gtagactggt gtccaacagg 180
 attcaagtgc ggtatcaact agcgggcgcg gtctgtgatt cctggagcgc ggaattggct 240
 aaagttcaac gtgcagtcgg catgatttcc aacagcactg ccactctctga agtctttgcc 300

agaattgatc acaagtttga tcttatgtat gcaaagagag catttgttca ttggtacgtt 360
ggagaaggta tggaagaacg tgaactttcc aaagcacgtc aggatcttgc cgctctccat 420
aaggat 426

<210> 2603
<211> 414
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E1-F5
<400> 2603

cggacgcgtg ggcggacgcg tgggacaagc cagggtagtg gatatgattc aaagttttgt 60
tactagtttc tattcttttc aagattcgaa acaacttcca tcggaagtgt gaagtcgttt 120
tgaagcagtt gattgtgtgg tgtagccaac tggagtggca aggaaatgga gacgagcatg 180
atcagctcgg gggaggaggg gcgtcagttg tgggagtgtc tactagaatc tcaaactcac 240
tatgcacaaa tgatggaaga attgattcct ttattgattg ctctcacgca acgtactacg 300
gaatacgtga gtcactatgt tgtgttgata agaaactata ttcacttggg aggtcgccat 360
tttgtggtaa cttatggaaa ttggttgtgt tcctttttat attcattgct tggt 414

<210> 2604
<211> 317
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E1-F8
<400> 2604

cccacgcgtc cgccacgcg tccggctaaa cgttgccctt gtcgtatgtc ctctagcgaa 60
tatagtgatt ccctttgtca acaaagatac ttgtttgctt tggctctgtga atgtgttcct 120
gatcgtagt ctttatgcgg agcggaggtt ttggtgaaag acgcgccagt cgccatgaga 180
attcgtggca tttggagggg ggcgcggcgt gcaacggaag gaggagggtc aagttttgaa 240
caagtaaaag gtttttggat tggggtagtt ggaagtaggc aaaggagaaa ataaaagaaa 300
gcaacgtctt tttagct 317

<210> 2605

<211> 344
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E1-G10

 <400> 2605

 ggtcaaaaag cgtctttttt tttctcttgg agcaaagtc gtttcgattg tgaatccaaa 60
 catttgggtgg cctcttattt gtccttgttt ctccaaagat ttttttttcg ccctagaaaa 120
 ctttaacgga tcatgttgga ggctccagtt gaagaaaaga tactttgtgg tagacagcga 180
 tattgcctca gattgtagaa agtattgcac tggtttatac agagataacc acgtcttagt 240
 gacactgaat ttataccgtc cgctgtctga gagtcgtttg ttcctagtat tgcatttttc 300
 ttttgttttc ttgaaataaa aatttggcgc caatttgtac tggc 344

<210> 2606
 <211> 421
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E1-G2

 <400> 2606

 cccacgcgtc cgcggacgcg tgggtgcagg caaagaagtg acgcagtaga tcagagagta 60
 acacatgcaa gtaggtaaag cgaacgggtg agtaaagagg tgtgaaagag tggaagagca 120
 tgagggcgca gaagaatgta agaagggggg agagtaaaaa ccataaagga agtaaaagcg 180
 ggaatctgag aggaggaaag ccagaggggg ggggataaaa ggtccagggg aggagaagtc 240
 agcagtgggg aaaattgggc aatgtacagg gaagtatgac ccagtaatga ggagtggagt 300
 aaacagaaaa ggaagtaaaa ggagggaatg aagggaagtt atggcaaaaa cacgtgccag 360
 cagcagcggg taaacgtgtg tagcaagcgt aaagcagaag aactgggtgt aaaggtcgag 420
 t 421

<210> 2607
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E1-G3

<400> 2607
 cggctcgtga gatgctactc cacaaggtaa agaacccttc gagagtggac tttgtccatg 60
 tcgatgttat ggaaaaatct gtactttcta gcgtattaaa ggatgctgag gtgggttttct 120
 tcggtgcttc agcttctgca ggggtggagag tccctggtag ttctaagaac accccgaaac 180
 aggtggacta cttggggggg atgcgggtcg cacaagcggc ggggcaagct aagggttaaac 240
 gtctcatctt ggtaagctca gcaatggtga ctaaccgaag ttcattccct tatttgttct 300
 tgaactctgc atttggacga attatgcatt ggaaaatgca aggagaaatt ggagtcatca 360
 aagttcatga gaaaaatcca gaaatggctt atactattgt tcgcccagga cacctg 416

<210> 2608
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E1-G7

<400> 2608
 cccacgcgtc cgcccacgcg tccggtcgtg tacgaggggt ggtcatttgt tgagctgaag 60
 agtcaatgaa caagcttcag ttgctatgcg taaccaaaaca acctgtttca agagcatggc 120
 aaagagaaca gaaggggtta gactccgaga agaaatcagt tgcagaagga actttgggaa 180
 gcaggtggaa ggggagggag actgcacaag agagcgcgta ctttaatcgt gaagatgagc 240
 aggcagtaca aaggttagca gcgaaacttc ggcagcaaat tgagccatcg gaggaagtac 300
 tcgccaaca gagaaaaggc gtggcagaaa tcttacaaaa gcacggtgtc cagcctaate 360
 aaagtttgat tgaagatatt gtccgtatct ttcattaatt cctccgtgtt tga 413

<210> 2609
 <211> 375
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E1-G9

<400> 2609
 cccacgcgtc cgcccacgcg tccggaaaag agaagagagc tagaaaggag gtaaaagaag 60
 agtaaaagga ctagaagagg tacggaattc acgaggaagg agcgtgaagg aaggaggaat 120

cccaagtaat cgaggaagaa aaagcttcgg tgaaagcgtg aacggatttt gtacacactg 180
 cccgtcaagt tctggaagtg tgctaggagt ggagtaaaca gaaaaggaag taaaaggagg 240
 gaatgaaggg aagttatggc aaaaacacgt gccagcagca gcggtaaaac gtgtgtagca 300
 agcgtagagc agaagaactg ggtgtaaagg tcgagtagta gagtaagtgt aaaagggaaa 360
 ggaaaggaga gaaag 375

<210> 2610
 <211> 414
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E1-H1
 <400> 2610

agacgatgat gtatttgctc ccaccaatga atacgtcatt ggaactgcca atatgttacg 60
 cttagtgttt caagatattt atcctgtgaa catgcgcaag gaagaagatg aaggaacttt 120
 gtttgggaga tttccagatg agagttatga tggctatact agtaacgttc caggaaatcc 180
 gtggattcta tgtactttag gaatggggca atattattat gaggttggag cagagtgggt 240
 gaaacatgag gagattgtca taggaaagtg gagcaaagac ttttcagac atttgaggggt 300
 tatgcctcct cttctcctc ctcaatcttc tatatcaacg accattactg gaaaagcgat 360
 ttgtagttat gtttctgcgc tattagaaga aggagatcgc gtattgaatg ctat 414

<210> 2611
 <211> 365
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E1-H10
 <400> 2611

tgattcttct tcttctgggt cttctgggtc tgagagtgc gatagctttg attcgtcatc 60
 agatgaggat agctcgatg atgagtacta tagttatgat gaagatattt ctgattatga 120
 ttcggaagaa gaagttgatg acttgttttc agaagaagac acggattcag aagaagaagg 180
 ttccagtgc tcggatgcg tgtaaaagag tgtacagtgc agcaatggaa caaaagttgt 240
 ttcgcaacag tgtatagaca gaaatagata gatgtagaaa ggaaaacacg caactattat 300

tatctattct tttcaccaag gaacaaccgt ttgctcgtcc ttgtgggcgt atatatgtct 360
ataga 365

<210> 2612
<211> 395
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H11

<400> 2612

tgccctagtt gccattactt tgggaccacg tggagctttc ctttctactc attccaatcc 60
ttccgtcata gaaaagaata tcgcttggtt tccttggttg tcgccaggaa aggccgtctt 120
tcgacceaat tttcaggcga aaggcactat caacgcagtt ggagcaggag acacatttac 180
agcaggtata ttagctatgc ttctaagaca agcacattct tcactcttcc tatctttgga 240
attgttggca gatgttgat tggtgctgc tatgcaaaga attgactctg gagtccaacc 300
aaaaaactg caaaaacttg ttatgcaact cgatgagatg ccccgctgctt ctgttcagtc 360
cctttgatca tttgtaataa atcttccaac gcaac 395

<210> 2613
<211> 331
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-052-Q1-E1-H12

<400> 2613

cccacgcgtc cgcaagtat tcaatcctcc aaagaagcct atgacggatg atatcacagg 60
agagcctctt gtgaagcgtt ctgatgataa tccagaaact ttaaagaaga gattagaagc 120
atttcataaa agtacggatc ctgtgattcg ttattatgag aagaaaggta ttttatgtcg 180
aatagatgct tctaaagata tcgatcaagt atctcaacaa gtggagcaag ctattgaaga 240
acgacaaaag actgccaatg cagcctgaaa gttgttttgc aagtaaaaag tggtgtgtgt 300
ttttgtgctg tttaaaaaa aannnnnnan a 331

<210> 2614
<211> 364

<212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E1-H2

 <400> 2614

 ggtgtatgat gcaggcaaag aagtgacgca gtagatcaga gagtaacaca tgcaagtacg 60
 taaagcgaac ggggtgagtaa agaggtgtga aagagtggag gaacatgaaa gcacagaaga 120
 atgtgggaga tggtttagagt aaaaaccagg gggggaagta aaagcgggaa tctgagagga 180
 ggaaagccac attggcactg agaaaggggc agcgggatag aagtcagggg gggggaaaat 240
 tgggcaatgt acaggaagt atgaccaggt aatgacgagt ggagtatcca gcaaatgaag 300
 tataaggagg gaatgactgg aagttatggc acaaacacgt gccagcagca gcggtaaaac 360
 gtgt 364

<210> 2615
 <211> 412
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E1-H3

 <400> 2615

 atttgaaacg cgtgttttgt tttttacttt gtacttgatt cttgtaaaac atgtctgacg 60
 atattgttgc cttggttatt gacaatggct ctggtatggt gaaagcagga gttgcagggg 120
 acgatgctcc tcgttccatg gtggcgctga tcgtaggtcg accaagacac caagctatta 180
 tggttggtat gggagggaga ggggagttat gtgggtgatg aggctcagtc tcgaaggggt 240
 atactctctt taaaataccc aatagaacac ggtattgtca ctaattggga tgatatggaa 300
 aagatatggc accatacttt ctacaatgaa cttcgaattg cacctgaaga gcatccagtc 360
 ttgttgaccg aagctcctct caatccagag gcaaacaggg agaaaatgac tc 412

<210> 2616
 <211> 433
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-052-Q1-E1-H4

<400> 2616

cccacgcgtc cggagacatt ggttgcttgg catgagtgag ttgaggttgg acggagacac 60

tcgtgagttg gtacgacagg ctgcggagta catcgttcgg aaagaatata aagtttccga 120

tatagttcga aaacgtctgt atgaagaaga cacgaggttt gcctttcttt ctccaaagcg 180

gtcgcaccac gaagaaatag taggagaact gggagaaaca gtacagagac tgggagccaa 240

aagaaagcat aaaacacaac acacctcagc gaaaagatat agaaaaacta cagaaacgga 300

agattatgga gacagactgt ccacagtttc tatgggtacc ttggcctcat atatgaaccg 360

ccacaaggaa agagtgcctt atcaggtact tgatatggan gaaatactcc acgcaacacc 420

tttatctccc gtc 433

<210> 2617

<211> 370

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H7

<400> 2617

agtgactgtc ttcctattcc attttccata caatactcta attgtccgta aggtttcaat 60

attattacaa gtaaacaatga gttgttcaaa gtaaaaaaaa agggcgagag aggaagaaaa 120

aaaaaagaat aatggcgggg agggttcaga cacaaaataa cttcaaaaga aaaataaaaa 180

gttctccaag cgggggagga gggagtcaag ccaaggaggg gacaactagg gccgtcctgc 240

cagggaaggc actcgaatth accctgcata gcccttttaa aacccatcta cctttcgcca 300

atgtgcataa tacggaatca gtttgaaaaa ctcaccgttg ggaaaagatt caccttccca 360

aaacttatcc 370

<210> 2618

<211> 341

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H8

<400> 2618

cccacgcgtc cgcccacgcg tccggcagaa tggacgacag gcttcacgt ttcaaaagaa 60

ctttccacag agtgctttat aagaaaagaa aggaggacac agtaaatgag gcgagaaagc 120
 ataggaagtg aaacggatta ggaacccgtg tagtctatgc agtaaaagaa agaattgagta 180
 agaaaaaagg gagtcattcc agcaggggag taaaggcgca agagggagac ccaaagcaat 240
 tgacgggaat cggaaaaagg taagaaagag gaccgaatca gggtaagagg tagaggagca 300
 agaagagaag agagaatgct ggggtggagta gcgaaacaag a 341

<210> 2619
 <211> 246
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E1-H9
 <400> 2619

ggagtgagtg tgcagaggac tcgagccaat cgattggaat cctattggca atgactttgt 60
 cgtggagtgt agttctggta cgggtgttga tcaagtttct ttggaagaca gagaatatta 120
 tgattatgat gaaaaggaaa aggaacaagt cgctattacc ggtttagaat ggcaatggaa 180
 gagagtataa atttccaaac aacaacaata ataaaaaata tagtcataga aattgttttc 240
 cacaat 246

<210> 2620
 <211> 392
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-A10
 <400> 2620

agcccacgcg tccgcccacg cgtccgatcg tcttccacgc ggaagtaata tgatcgatcg 60
 aacagcattg cgcaatgttg gaatgcagta tgtaacaacc gcggatgata ttggacatcg 120
 cttggtcgtg gagatccaac taaaggaatc cagcaaatat aatagtcaca tgaaggaagg 180
 agaacgacca aatgcggtta cagatatcat ttctacggac cctgaaatgg ataggaaagt 240
 atctcagtgg gtgtcgggaag gacaaaaggc attcttagta gaagatgagt tgacgggtga 300
 acgtcgagga atattcttaa gctcaaccaa attgaaagtt cagaaacaag ccagtcagga 360
 ccgaaatagc aatcatggag taaatactag ca 392

<210> 2621
 <211> 334
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E2-A12

 <400> 2621

 cggacgcgtg ggtgggggta tcaggttgtc ctccaccatc aactacatct cgaagaatag 60
 tactgttcat cagtcaagta agggcaaagt ctctgataa caacagcagc cactgtttgc 120
 aacttttact ttcgacagta cactcgattg acttgactcg atgcaaattg gcatgggtgtg 180
 tetgacgctt gacgctcgag atatgtgtc tcgatacaga atcatatgga caaggccatt 240
 gcgctttgat agtgaagaac gttacaatgg cgaatggaat ttggagttga agaaatgatg 300
 aacactctac ctgctccagt gatagatgaa cgtg 334

<210> 2622
 <211> 252
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E2-A2

 <400> 2622

 ctactgaca tcgtatccgc ggttcaacac tagagacgaa cagcaccgac tgtttaacac 60
 aaacacagca ttctgccgaa ttgtagaaaa tgctcgagta tcgagtgtgc ggcttgccaa 120
 atactaccga ggaacgaggt gtagcatgca ggcaaagaag tgacgcactc gatcacagac 180
 taacacatgc aactaggtac agcgaacggc tgagtaccga ggtgtgaaag actggaagaa 240
 catgcaacca ca 252

<210> 2623
 <211> 403
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E2-A3

 <400> 2623

 ggtcaggaat tccagtcacg cgtcagatgc aagcggccct tgatgggata ttatgctttg 60

gcaaatacca aacagccttt attcgaaagt ccaacaaagc aatttgactt gtcctcacta 120
caaaagactt tcttttgtat tgggccggtt tgtttaagaa gcggctatgg attaggtttg 180
ggagttggct gtgggctggg ctttggctgt gggtttgctt tgatggacct gtctagtcaa 240
ggtgtcggtg gcaccggtgg tattcctacg cagttcttgt atggtttgcc ttttggacat 300
tacgtttctg ggtttttgca gaacttagct caaaatttc ctggaagttc aacaggtatt 360
ggctgtgggt ttggtttggg ctatggcggt ggaattggtc tac 403

<210> 2624
<211> 343
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A4

<400> 2624

gtccgctgca agccgccggt gctgggatat tatgcattgg aaaataccaa tacagccttt 60
attcgactgt ccaacagtgc actttgacat gtcctcacca tcacacacgt tcagttgtgc 120
tgggccggtt tgtttaagaa cctgctatgg attacgtttg ggagtttcct gtaggctgcg 180
ttttggacat gagtttgctt tcttgtgtcc atgtcaagtc aaagtgtctg aatcaccagt 240
ggtagtecta ccctgttcct gttccgattg ccgtttgtgc ataaagtcac tgcatttttg 300
caacatttac ctccaccttt tcctaggagt tcaacatgta ttg 343

<210> 2625
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A7

<400> 2625

agaagaaaag aagagaaaag ccgtactgaa gaccgacaca ggtactcgag gagaaaggag 60
acccaaatta aggtgagaga atggacgata aggaactagg caaaaggata tggatatctgc 120
ggtagaacat atgaaagaag cagcaccgac tgtttagcat aaacacagca ctctgcagaa 180
aagagaaaat gtaaagtata gagtgtgctg cctgccaat agtagagaag aaatcgatga 240
aagtgaaagc gagtaaaaga tgaggtatag agaatggcgg tcctaacagt aaggatccaa 300

aggtagcgaa gtaaatagac gtttgaaagg cgtccagtat gaaaggagaa acgagtgtag 360
cactgtctag tcgtccaact cagcgaaaca gcaataactg tgaaaa 406

<210> 2626
<211> 402
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A8

<400> 2626

agagcaattg agctaatagaa actggtggaa gaatgactac gttggactac gaatatagtt 60
caactccgtt tacagggcca ctttctacac ttcacactgg tacagtaaag ctggataatg 120
atgaaataga gcgttattta tctcaactga gaacagcgtc ttgcaagccc cttgcagaag 180
aggatgtctg taaactgtgt gatatagcgc gggagctttt tattgaagag tccaacgttc 240
atcctgttaa ttgtccaata actgtttgtg gtgatatgca tggacagttt cgctacttgt 300
tagcactcgt taaaatacgt ggcaactgtt cggaatacaa ctgtcatttc atgggggact 360
atgtaaatag acgatattac tctgtggcag caataactgc cc 402

<210> 2627
<211> 384
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B1

<400> 2627

gggtcgagca cgcgtccggg aagaacggac cgagttttac aagtcgatat tgctggagta 60
ttcttctctg ccgttttttc aggagttttg atggtaacaa agttcttttc tttagtttgt 120
tatttactgt atttagattc ctgccttttt tgcgttcaat atgttaattc caatagagca 180
tttgaggaac ggaagtactt attttttcat tgcggtagta attcttttgt tcgtagctat 240
tgctgttctg gccattctgt atgtaagggt gcttaaagga aatgaaagaa tgcgacttga 300
gttgctgttg ggcaaggaga agacagcaac aataacagga acagtgaata gttagaaacg 360
ttgatgttcg tagatattca ctac 384

<210> 2628

<211> 394
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E2-B10

 <400> 2628

 agcccacgcg tccgaacttg acatgcaaca aagtaacctt cgagtagtcc aatcttcttt 60
 ggtggcaagc tttgtcctca ttctaagtat aatctgtgcc attcatgcag taacagccga 120
 tgaaataaca agtttcgaga gaggatacca aacagttgca ccaactcaga cgcagcaatg 180
 tcaaaagatt tgtgtcaccg ccacacaaac tcaagttcaa agttgtattt aaactcagac 240
 acaggctccg ttcatgtctc aatgtgtcac agcattgcc aactacctgct ataaatacgt 300
 aacaaaatat aagcacgtgt gctgtgagca agaatacgag caacagaatt atcaacagca 360
 gcaggtttgt caacagtatt tgcaactatc gtac 394

<210> 2629
 <211> 392
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E2-B11

 <400> 2629

 agcccacgcg tccgatctag tcaaaacaac aacagatggc agcaaaaaac tcgattactt 60
 cggaagttgt agattcctct cctagtctta tcgttgcaat agcaatcgtc aactcctcga 120
 atcggcctct tttcactcga acatatgaac atcctgactt ggtgctgcct agcgctagaa 180
 caggagaaac gagagaacaa cagctacact atttactttt ccggtctcta gactttattc 240
 ctggtgaagg aaaaagtgca agggagatga ccgcagacgg ctacttgggt tgtatcaacc 300
 cacaagaacc acttcctata ttcgcatatg tcaccaatac aagtgtgaag attttattgg 360
 cattggtatc gcgtacagct aatgatatga aa 392

<210> 2630
 <211> 429
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E2-B2

<400> 2630

cactctatta tattggctat caaatccgag tatcgctttt ggcttgggcc atcaacggag 60
aaatttatga agtgcacgtg cgcaattggg gaatgtcgtg gggtgcaacc attcttttgg 120
gttcggcatt ctactgagc tatacattta ccagacaagt acgagcattt acgagaactg 180
gagtatttgg attgtatgca ggatttacct gcattttctg gtttatcctt atcattttac 240
tgcctgagac gtatggaaga acgctagaag atattcgaca tatattcgat gaaggtttag 300
ttggattggc aaaatacaac tggagtcaaa ccaaaccatg gatgaggacg acattaagga 360
agcagcatgt agcagtcgat tctagcagag aatcggatga acttgcgtcg agcatatcg 420
caacgaaaa 429

<210> 2631

<211> 408

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B3

<400> 2631

gcgaatggga gaattgagca tctttcgtcg tacttttagct gaaaatatat cgatgcgac 60
tgttgaatgc aacagcattt cacatatgga acttgacgtg aagaatgttc ctgcattttg 120
cacaacagct ggcgattcac ttgataatgc tgacttgctc aatgcttggga aactattcta 180
tgagcattat ttgtcaagag acggaattta tttgcatgaa gaggaaaact cttatgggcc 240
tggggttcat attcgtatat ctgatgtcat gcagagttct tcgattactt gtgagggaga 300
atcatcctcg gaacaaatat caaacctttt acagaaacaa aagaccgact tgataggtaa 360
ttcattgaaa tgttttgatg actcatgttg cactgtaagc catgatat 408

<210> 2632

<211> 421

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B4

<400> 2632

agctatttga tgatcatttg acatttcttc aacacaatga agtgagctcc ttgttgaatg 60

tgttgtataa gctttctact agtgtggttaa ctattgcata catggaacgt ctccttgtgt 120
 tgcaacgtat tcgatactgg ttgttggttg ccagttgtat gatgggtgtg gctttggtat 180
 ttatgttgat gtttcgacgt tctttttggg agcgtgatga gttgtattac aaggccaaat 240
 ctgttttaaag tcaatgttgc tatttgtact tgaaaatctt tttttctttt tggaatatgc 300
 tgggtactacg ttgttgttgt tgtatcgagt gacatgtatt tcgtcttttg acaacacaag 360
 acatgtgttt ttgagtagta taatacatat gcaagacggg tcgagacaca cacatatata 420
 c 421

<210> 2633
 <211> 425
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-B5
 <400> 2633

agcccacgcg tccgcccacg cgtccgcaat acattgcgcg tgcaagaacg gcaaagacat 60
 cgcaaaaagt gaatgagatg ctcggctccg tgaatacgag ttctgcattg gaagcttttg 120
 aaaggatgaa gtccaaagtg gaagaattgg aaccaagtgc ggaagcaagt gcgggtatga 180
 ttggctctgg aaatgccaat ttggaacgac agtttcaggc attggaagga acttcggtcg 240
 atgatgaatt ggcacaacta aagtcgagta tcgagtcttc ttctcgacct aaatcacttc 300
 cttttcagca ggattccaat atagaagctg agttggaccg aatgaaaaga gaacgagatt 360
 attcttgaac tgttcaaggg gggcaatgaa tagacagtat atatatatat atatataaag 420
 ggtat 425

<210> 2634
 <211> 408
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-B6
 <400> 2634

caagcgtaga gcagaagaac tgggtgtaaa ggtcgagtag tagagtaagt gtaaaaggga 60
 aaggaaagga gagaaagagg aaagggatga aatgcagaga tctctagaga aaggcaagaa 120

agaaaagaaa gtaagacaca gtaaatgagg cgagaaagca taggaagtga aacggattag 180
gaacccgtgt agtctatgca gtaaaagaaa gaatgagtaa gaaaaaaggg agtcattcca 240
ccaggggagt aaaggcgcaa gaaagaaacc caaagcaatt gacgggaatc ggaaaaaggg 300
gtggatcacg taaattaatc cgatataaac cgagaacctt acctctccaa gaaggtgttg 360
cacggctgtc gaaagaacgt gctgtgaagt gagagaacgt acgagaaa 408

<210> 2635
<211> 414
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E2-B7
<400> 2635

cccacgcgtc cgtttgtggc attgttttga agaagagagg cccatcctca ccactacgac 60
gagagaagaa accatgacta cgcagttaga aagaggagaa taaagcggtc cacaacagga 120
agaagaaaat attcccgagg acgccaaaga cttggccacc tatgttcaaa acttgttgtc 180
tcagatgcag agccgttttc aaaccatggc agactctata ctaggcagaa ttgacgagat 240
gggtagtcgt atagacgaac tggagaagag catcgatgag ttgatggaac agactggagt 300
aaatgaaggc gatggaacag agtctggtga gggttactacg acaagtcgtg gggagtgaat 360
gcttcggttg tagtacgttg gatattctcc agagtatctc gtactatcta tcca 414

<210> 2636
<211> 428
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E2-B8
<400> 2636

cccacgcgtc cgcccacgcg tccgcccacg cgtccgggag gtgatttcca ccaagtcaca 60
aagaatcgta aaagagaaaa tgacgatagg ttttgtacat ccacttgga ctagtggttca 120
atgtaacaaa cactacaaaa ctgctacttg ttcttcccag ttttattcca agtcttcac 180
gtttctaggg agaaaccatg ggggttgcaa gtcgtggtct cttgcctatg gaagcaaggt 240
ggatcggaac aagtacactt acagtcaccc tagttccgta aaacaaggaa gaggaccaac 300

tatggttgct tcgaaaacag agttggaaca acaagtaaga tccagactag tcaagttggt 360
 tgagcagaca ccttgcacgc ccatcatggt gagacttgct tggcacgacg ctggaacata 420
 tgatgcac 428

<210> 2637
 <211> 428
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-C1
 <400> 2637

cggacacgtg ggttgaggag gaagaactgt ggaacttgct gttgtctggc atcgccactg 60
 ttgttgcgaa gacactcgct gctccaatag atagagcaaa gattttgtta caagttcaac 120
 cacttactcc tttgccctgg tatgctcgct atagaactgg tttggaggct cttaaaagta 180
 agcggactat tgacagagtt tatattgctg acgttgaaaa ggaattccaa gagaacaggg 240
 attctgggca tattggagag gaaatggagt gaatctactg agaacgatac cagggctctg 300
 cttcaagttg ttcactctac aatactttaa agatcaattc ttccttccaa ggaaccaatc 360
 ctacgatgga ttgatttga tattgcgtaa agtaggcgca ggcgtttcgg ctggtactag 420
 cgctgtaa 428

<210> 2638
 <211> 181
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-C12
 <400> 2638

agcggacgcg tgggcgtatt cgcgcaatga gaggcaacgt gactatgaag acagaccctt 60
 tttgaagttg gtgaaaccac ttcgtgaccg tcctatcagt tttatttccc caaatgatga 120
 aaatagcagg attcctcatt agttggatag tacaataaat agttgttgag ctttatgttg 180
 g 181

<210> 2639
 <211> 419
 <212> DNA

<400> 2641
 agataatggc agttaggcaa tgtttgctta ttttcatatg tttttcagct ctgttagggt 60
 caactttggc tgctttctggt gcaacgtcta tttactcggt gtttcagagt aaaagagact 120
 atactttttac agtccaaagc atagagctgg ctaatctaac agacgtatac aacagcagtg 180
 tattggactt taccttcctt gtttccaatg acactgcttg gaaacaatcc agagccaatg 240
 tcactgggtgc acttagtgca gcaaaacaaa acgtaacagg agcaatagcg tttctagaac 300
 gcttgatagc agcaagcaca gtgaataaaa cgggtggagtt tagtaagctc tctagtggta 360
 cgaaggaggt tgtttcgctg gcagggtttac cgcttaattt cacg 404

<210> 2642
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-C5

<400> 2642
 agccccacgcg tccgcccacg cgtccgcccac cgcgtccgaa tcatgtcctt cgctatttct 60
 gctgttggtt ctaccggagc agggctatct tttggtgtag ctgcttcaat tgcaaaggct 120
 tgggtctgacc tggatcattt atgtagtggc agggatagag cgctcttgag tttgccccaa 180
 gttttcaaaa gttccaagga caagggcaat cttctcgctc gtcaaggaca aggttctatt 240
 gaagccccag gtaaagctga gagaattgca agacaaagag caggaggtat ccgtagtgct 300
 gaagatgacg tcgtaccaga ggaacccaac tttctagcaa aggttcccaa acgggagcga 360
 gatgggagag cagcttttctg tccttcaaag aagtcaaacc cgttctccct cggagccac 419

<210> 2643
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-C6

<400> 2643
 agggccttgt gcaagtcaac aaacatagaa aagtacagag attgcaagaa gataatattt 60
 tgaatagagc actatcacia ccaggagatg tattttctgtg cttttgcaac atccagttgt 120

tggtgaatgc agaaagagct attataggaa atattacttg tccagaaagt atcgaattgt	180
gtcgtctatt agctggacat atagcggttt ggttcgatga acatttggat gactttcggt	240
tggaagctat cttgggagca ctattgtgta cttgttattg tgagtggaag cgttttgaac	300
gagaattggg ggtacaagaa tggaatgaat tggagaagat agcttcctta gatacttgga	360
agcttgtgct tgggtacaaga caaagagtgg ataatatgtt acagcgagtt acacag	416

<210> 2644
 <211> 426
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E2-C7

 <400> 2644

agcatcatga aagctgctgt ctttgcattc tttgtcttag cactatgcgc cgttgctatt	60
caagcttctc ctctagagga cactttgggt gcctttatgc ggggtgggta tcaatcgcaa	120
agccaagcac caaaacctag ctggtgcaag ttgaactgtc attataccca actttgtgaa	180
caagttatcg tccagactca acacgtcgtc caaactcagc acgtttacca aacataccaa	240
gtacagcaaa cacaacaagt ttcgtcagca tactgacgca atgaggtatc cagaggggga	300
tatggccaac agtctgtagc cccagctcct gcaccttcg tgtcagtgtt ccagtcaagt	360
gctgtattga ctgctcgtct tgctaccaat aagtttctca tcacgctcct cagcaagtat	420
ctcaac	426

<210> 2645
 <211> 435
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E2-C8

 <400> 2645

agacccttt gtctttcggt agagagtgac aaggggttgc gctaccaaga cggcatgtct	60
atgcgctcgg gcgacacaga acgagaataa ctagggcaaa agacggaatg ccattcgata	120
aagagtaaac atgcgtgaca ctgggaatgc aacaaccgct ggttcgtctt ttgcatatcc	180
agccggtcgt gtcgttgtct cctgcgagtt agctccggta taacaaggct accaagcctt	240

cttgaatcg ttcaggcttt atgtcgattg atagttcaag tgtattttgg aaaaagagta 300
 atacaaggac gacttggctt gcattcttctc gtttccttcg tgggttgcta ctgctgtaag 360
 tgctcagggga atactacagt gaaaccgaac caatcgagcg aggttttgct atgacagagt 420
 gataagaacg tggac 435

<210> 2646
 <211> 389
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-C9
 <400> 2646

agcccacgcg tccgtctttt tcttggtggc ttgggtccgac ttgcaaagag gatgatgaaa 60
 cgagacaaga tcaagtcttg gtatctttcc cagtcttacc cagtggcggc acaaaataga 120
 atcaccgaat gtcttgcttt attacaaaat caaccaaca atattccttg ctatatccaa 180
 caatatggaa taccgaagt tgctggtttg cgtgctttga tatggaactg ttgcattgaa 240
 aaattctttg cggtcgattc tactacctct ttgcacgttg cttgttcacg gtattgggaa 300
 tcgatcgac aatatcagca acatccaacc gacgaccac tactggatag tagtaccacc 360
 gagactgtcg tggaccatcc tctcaaccc 389

<210> 2647
 <211> 356
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-D1
 <400> 2647

cgcgacgact cgttcaactt tcgcaaggca aactattttc tgggcgcttc gagttagttt 60
 gtacttgatg gttttcatag ttactagaat tggaagtttg atcaaccgct tttatcagtt 120
 gacgcatcag ggatattcac cctttggtct catggtgctc catgcagtta ctcagagttt 180
 gcaaggtttt ctatttggac ttacttatat ttaccacgaa agagcactag gggaagtgtg 240
 tctattcatt cgtcgcaagt ggagtcgcag aggggatttt cgcgaggatt cttttatcgc 300
 attagagaaa agaggacttg cccatttttc acaatttgat gaagacgagg aagaag 356

<210> 2648
 <211> 395
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E2-D10

 <400> 2648

```

agccacgcg tccgagtctg ctctggttcg agttttgagg agaaggaacg ttgcaagtca   60
aagcaaccca ttctcgatat gctcttgga aattcggcag gtctgcatca aaatgttttc  120
cgtgactttt ctatgtggaa aagaaaagaa aggacattat atctcaaaga tgatctacca  180
gtgatggatt acaaattcat cttgatgagt tgggggtcaa cgatccatat gaaatgaagt  240
ctcaattatg gaaatgactt gccagggtta tttcttagca ttcatttggc ttccttatac  300
tggaaaactc cgatggaaag tttgtggata aattcagtaa aaagtataac agcagaatac  360
tctaattggga aacatttgtc gaaatttgcg ttttg                                     395
  
```

<210> 2649
 <211> 387
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-052-Q1-E2-D11

 <400> 2649

```

agcacatttg gcgggattcc gagagagtgc atgttgtag aacaaacggt tgctgttgac   60
aagactttta cgtttttata cttttcaatg tctgcagtgg aagtcttaca agtaaagtgt  120
ctaaataacc ctggtttctt tcgagaccgc tttgttttg acataactta tgaagtgaga  180
gaagcggtac aacaagatat tgagtggaaa gtaatttatg tgagttgtgc caaagacgag  240
agtttgacc aagttttgga tgaagtactt cttccagcag atacggtggg tcgttttcag  300
tttacttttg aggtctcagc acccaatcca gacaaaatac ctagtgatga cttattgggt  360
attacggcag tattgattac ttgttcc                                     387
  
```

<210> 2650
 <211> 393
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-D12

<400> 2650

agcccacgcg tccgaagttt cttggtctag gcagtctcgt atctgagcgt cgccatgaca 60
atgaaaatac acttttggcg acagaattca cctttcagta ttctcagagc aggcaaaaca 120
cccttttttag tacaatatcc atgctgcaga gttcgaatgt aataagaaaa atcgctcatt 180
ttggcgctg atcgaggctt gccatacgca tttcctcatc gctggaatgg aacatttcga 240
gttattttac tatggtgaga agaaggctgt ctgagtgagg acatttgtct tcaaaataat 300
tttttgcgag aaaggaaaat aacgtgagag tataagtacg gccagaaga ggcatttcaa 360
atgaaaacta agatggaata atacgtctac tag 393

<210> 2651

<211> 378

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-D7

<400> 2651

aggtactcct cgaaagctat ataagtagcg tatgcaggaa agaagaaggt aaaggaagag 60
aaggaagaag cagagaggga ctatgagcga gaaggtggat agtcgagagg gaaaaagccc 120
agaagccaag ataaggtatc aaagtaaga aagaaggaaa aggagaagaa gagagggtag 180
gcttagaagc agcaaaccag agaggaaagc gttaaagcat gaaagaaaag aaatccgaag 240
aagaagagaa aaaggtaaga aagaggaccg aatcagggtg agaggtagag gagcaagaag 300
agaagagaga atgctgggtg gagtagcgaa acaagagaag ggaagtaaaa cgtaagaaag 360
aggaaaggtt tacgagag 378

<210> 2652

<211> 421

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-D8

<400> 2652

aaaacaaact tgtggaggca gatgccatca ttttggatt tcctacacgc tttggtatga 60

tgtgtgctca aatgaaggct atgtttgact ctcttggaaca tttgtggcaa agcggtcagc 120
 tggttgggaa acttgccgggt atctttgtat ccaccggtag tcaaggaggt ggacaagaaa 180
 cgactgcttt aactgccatt actcagttgg cacacttggg aatgattttc gttccgacag 240
 gttggaatat attggaata acttttcatg ttttgtgaat attggatagg atattcttat 300
 ggcagtgata tgtttggttt aaaggagcct cagggaggtt ctgcttatgg tgcaggtacc 360
 tttgcagggtg cagatggaag tcgacaacct tccgaatacg agttggctag agcaaaacat 420
 c 421

<210> 2653
 <211> 387
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-E11
 <400> 2653

agcccacgcg tccggtcgta gtggtaaatg aacaccgaga gcaaaactgt caaacttgtg 60
 agtagtgata atgaagtttt tgaagtagac acaagcattg tatccctttc tgaacaata 120
 aaaaacgtct tggaagacac ggaggatata gagagcattc ccttgccctaa tgtggaagga 180
 cgaattcttg caaaggttat cgagtattgt agatatcact cactcttaaa gaccattccg 240
 cagtctgagg aggatattga gcgctgggat agggaattcc taaatgtaga tcaaccaacc 300
 ctttttcatt tgattctggc tgcaaaactat ttggatatca agagcttggt ggatttaact 360
 tgtaaacgag tagcagatat gatcaaa 387

<210> 2654
 <211> 432
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-E2
 <400> 2654

cccaagcgtc cggtgttttt cgtaaaagtt ttcattcagc atggctccta aagggtgctaa 60
 aagtgtaccc gttgcaggta aaaagccggg ggcaaaagtt gaaaggaaga aatcaaagaa 120
 gaagagatcg gagacgtatt ccatttatat atacaagggt ctgaagcaag ttcattcctga 180

caccggaata tccgcaaagg ctatgagcat catgaattcc tttgtgaatg atatTTTTga 240
gagaattgcg tcagaagcta gcaaattagc tgcttattcg aaaagcaaga cgcttacttc 300
gagagaggta caaactgccg ttcgtctttt gttaccagga gaacttgcaa aacacgctgt 360
atcgggaaggt acaaaagcag taacaaaata cacttcttct taacggtaca acaagtgctc 420
aaaaggtggt tg 432

<210> 2655
<211> 284
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-E4

<400> 2655

gaccacgcgt caggactagt tcgagatcgt gaggggattt cggttgggcc taggcgcaat 60
ggcaactcgt gtggaaaact tgcgcggtaa ggagaccatg aagagacctt gcaaaggggc 120
ttttgtggct cctgcctttc aacaatggct tccaaacact ttaaaaagaa ctgcctttag 180
caaggatgcc tgttgtagag taagcctgaa gaagtgtttt tcgcgcaaaa ctaccgtttt 240
tcaaacgacc agtcactatt caagaactat cattatggcg gatt 284

<210> 2656
<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-E5

<400> 2656

agcacacatt catgtttgcc tttcagtaca gcttatgttc cagttctatt tatctaagga 60
gagttgcatg gaagagtatc aattatcatg gttaccctcg agttatcgta cctaataata 120
gggtaatctt tccaagaatt atctcaagtg ctgccgatag tagcagtgca aaggaagggtg 180
tcaagaatat cgttgataat atcaaggaaa aagggttctga aatatatcac tcagttgaag 240
aaaatgtaaa gaaggaggca gaaaaagtat cagaaaagggt tgatgaattc aaagacgctg 300
tgcaggatag aatggaaaat gcagatactt ccaaagcaaa agacgtagca agagatgttg 360
tagataaggt caaagatgct ggacaatccg taaaggaggg tgtctctgat ggcaaagaag 420

<210> 2657
<211> 163
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-E8

<400> 2657

gacccaagcg tcagcccacg cgtctgtcca cgcgtcagta caaccttggc ccgacttgta 60
agtgaccaag gcgtcgaccc tggcaccatt atcctctatc accggtactc tcatatgggg 120
ggagaaacac ttagagacct cttttcaggg ctaacctaaa gtc 163

<210> 2658
<211> 396
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F10

<400> 2658

agcgggtggat ttccaggctt cgatggagag tcaccataa cgttttacga tatttgttgt 60
ggaatccgag agacgataga tttgcttttt cctgcggatc aagtgcaagt catagcagag 120
cctgggcggtt attttgtttc atccgccttt actttggcta cgaggattat tgcccgtcgg 180
tttcgaacct aatcacagga aggagacggc agttgtctga aggcaggctt ttgtttgcaa 240
gaagatatct ctcgttcgag tcttgttgct gattactatg ttgatgatgg tgtttatggt 300
tcgtttcgag atgtgatatc tttgggtgtg gtattctatc caaaacggt tagcagctct 360
gacgacactg ctattgacta tgcacgtttt gttcgt 396

<210> 2659
<211> 352
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F11

<400> 2659

agcccaggcg tccggaacaa cttttgagca tcaatcaaaa tttcactgta tgctagttat 60
gttaagtacc aagtttagcat acaagggtgc cgcggagttt aatcacacat gtcgttgcta 120

cactcctgga aacaagctcc ctcaaggcat tgatgttccg gaaagaagta aagtgggtcat 180
gcttcgtgac gaagatgttg aaagctatag tggtagtcgt atagtgtcag gttgaagaga 240
ggcctatacg tcgacagaga atccagggtgc gaagggtcaat gagaatcacg tcctgaaaga 300
catggtgtcg tcattggacc acatgagtct gaaaaggctg tcgtgagttg ga 352

<210> 2660
<211> 402
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F12

<400> 2660

ccggctcgac ccaagcgtac gcccacgcgt ccgggtcgag tagtagagta agtgtaaaag 60
ggaaaggaaa ggagagaaag aggaaagga tgaaatgcag agatctctag agaaaggcaa 120
gaaagaaaag aaaggaagac acagtaaagtg aggcgagaaa gcataggaag tgaaacggat 180
tacgaacccg ttagtgcgat gcagtaaaag aaagaatgag taagaaaaaa gggagtcatt 240
ccaccagggg agtaaaggcg caggagagaa acccaaagca attgacggga atcggaaaaa 300
ggggtggatc acgtaaatta atccgatgta aaccgagaac cttacctctc caagaagggtg 360
ttgcacggct gtcgaaagaa cgtgctgtga agtgagagaa cg 402

<210> 2661
<211> 407
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F2

<400> 2661

cccaagcgtc cgcatttttc tttgggagaa aacgacgtcg tcgactcatg gcacctaaga 60
agacttcgaa agtagcacct cctcctgaag ctctggttaa aaaagaaaaa aaggagaaaa 120
agaaagagaa aaaccctctt ttcgaaagca gaccaagaa ctttggtatt ggtggagatg 180
tacaacaaaa gagagatgtc tctcgttttg ttcggtatcc cagatatgtt cgtcttcaaa 240
gacaacgaaa ggttctcatg tcgagactca aggtgccacc tgcgatccac cagtttacgc 300
ataccttggg taaaaacggt tccaaacagc tattccgctt gttaaatgaaa tatagaccag 360

agtcgaggtt ggaaaagaga aagcgcctac gtgaaatggc agaagct 407

<210> 2662
<211> 443
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F3

<400> 2662

ggctctagaat agcgggtcga ggcacgcgtc caccacgcg tccgcatttt tctttgggag 60
aaaacgacgt cgtcgactca tggcacctaa gaagacttcg aaagtagcac ctcttcctga 120
agctctgggtt aaaaaagaaa aaaaggagaa aaagaaagag aaaaaccctc ttttcgaaaag 180
cagacccaag aactttggta ttggtggaga tgtacaacca aagagagatg tctctcgttt 240
tgttcgttat ccagatatg ttcgtcttca aagacaacga aaggttctca tgtcgagact 300
caaggtgcca cctgcgatcc accagtttac gcataccttg gataaaaacg tttccaaaca 360
gctattccgc ttgttaatga aatatagacc agagtcgacg ttggaaaaga gaaagcgcct 420
acgtgaaatg gcaaaagctc gag 443

<210> 2663
<211> 425
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F4

<400> 2663

acgcgtcagg attactagtt ctgcatttga gccttcgaat atgatggcca aatgcgatcc 60
aagacacgga aaatatatgg cttgctgttt aatgtaccgt ggtgacgtcg ttccaagga 120
cgtgaacgca gctgttgctt ccatcaagac gaagcgtact attcaatttg tagactggtg 180
tccaacagga ttcaagtgcg gtatcaacta tcaagctcca tctgtgattc ctgactcaga 240
attggctaaa gttcaacgtg cagtctgcat gatttccaac agcactgcca tctctgaagt 300
ctttgccaga attgatcaca agtttgatct tatgtatgca aagagagcat ttgttcattg 360
gtacgttggga gaaggtatgg aagaaggtga attttccgaa gcacgtgagg atcttgccgc 420
tctcg 425

<210> 2664
 <211> 346
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-F7
 <400> 2664
 accttgccggc actgacagtc ttcagaccac gcgacgcatt gtttgaatat ctgccccgatc 60
 cacgtttgac ggtaacgatc gtaggctcaa ccgatggctc cgaccgggta cggggaacta 120
 gcggtacaat aatgaagtgt attggagaag ataaccacca tagcaccatg gaagcttgtg 180
 cttggtacaa gacaaaccat ggatgatatg ttaccgcgaa tctgcaagca ggcgagcaac 240
 atggccactg aaaacacgtc caaacaaccg aaatcgact agagaatagc ggacgatgta 300
 ccaggttgtg agaccagtg gagaggagtg cactaggtcg ttggag 346

<210> 2665
 <211> 376
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-F8
 <400> 2665
 agccccacgcg tccgccccacg cgtccgggta aacgttgctt ttgtcgtatg tcctctagcg 60
 aatatagtga ttccctttgt caagaaagat acttttttgc tttggtctgt gaatgtgttc 120
 ctgatcgta gtctttatgc ttactacttt ttggtgaaag acgcgccagt cgccatgaga 180
 attcgtggca tttggaggtg agcataactt gcaacggaaa aaaagggtcaa gttttgaaca 240
 agtaaaagggt ttttggttg gggtagttgg aagtaggcaa cggagatgat aatagaaagc 300
 agtcgtcttt ttagctaaaa gaagaatgca ctaagtcaat gaagaaatat taggaagcaa 360
 ctttacggaa gttatg 376

<210> 2666
 <211> 167
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-G4

<400> 2666
tcagcgtcga actgcaccac tcattgttct gtctcgccct cgctgtacag cgatctttat 60
ggttgtgtag aagaactctg tttcctgcaa tatagaaagg tatgtagttc acaacctttg 120
tacttcatta tctaggttgc tacgcttagt tgtgatagaa tacctca 167

<210> 2667
<211> 427
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-H1

<400> 2667
agacgatgat gtatttgctc ccaccaatga atacgtcatt ggaactgcca atatgttacg 60
cttagtgttt caagatattt atcctgtgaa catgcgcaag gaagaagatg aaggaacttt 120
gtttgggaga tttccagatg atatttatga tggctatact agtaacgttc caggaaatcc 180
gtggattcta tgtacttttag gaatggcgca atattattat gagttggcag cagagtgggt 240
gaaacatgaa aagattgtca taggaaagtg gagcaaagac tttttcagac atttgagggt 300
tatgcctcct ccttctcctc ctcaatcttc tatatcaacg accattactg gaaaagcgat 360
ttgtagttat gtttctgcmc tattagaaga aagagatcmc gtattgaatg ctattcgaaa 420
gcataca 427

<210> 2668
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-H11

<400> 2668
agtgccttag ttgccattac tttgggacca cgtggagctt tcctttctac tcattccaat 60
ccttcctgca tagaaaagaa tatcgcttgt tttccttggt tgtcgccagg aaaggccgtc 120
tttcgaccca attttcaggc gaaaggcact atcaacgcag ttggagcagg agacacattt 180
acagcaggta tattagctat gcttctaaga caagcacatt cttcatcttt cctatctttg 240
gaattgttgg cagatgttgg attggctgct gctatgcaaa gaattgactc tggagtcgaa 300

ccaaaaaacac tgcaaaaact tgttatgcaa ctcgatgaga tgccccgtgc ttctgttcag 360
tccctttgat catttgtaat aaatctt 387

<210> 2669
<211> 328
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-H12

<400> 2669

gaccaacgcg tcaaccacg cgctccgcaa gtattcaatc ctccaaagaa gcctatgacg 60
gatgatatca caggaaagcc tctggtgaac cgctcggatg ataatccaga aactttaagg 120
aagagattag aagcatttca taaaagtacg gatccggtga tccgtaatta tgagaagaaa 180
ggtattttta gtcaaaaaaa tgcttcaaaa gaaatcgatt taagtatccc aacaagtgga 240
gcaagctatt gaagaacgac aaaggactgc caatgcagcc tgaaagttgt tttgcaagta 300
aaaagtgttg ttgttttttt gtgcgttt 328

<210> 2670
<211> 400
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-H4

<400> 2670

tccggaaaca ttggttgctt ggaataattg atttgaggtt ggacggaaac actcgtgatt 60
tggtacaaca ggctgcggat tacatcgctt gtaaagaata taaagtttcc gatatatattc 120
gaaaacgtct gtatgaaaaa gacacgaggt ttgcctttct ttctccaaag cggtcgcacc 180
acgaagaaat agtaagagaa ctggaagaaa cagtacaaag actgggagcc aaaagaaagc 240
ataaaacaca acacacctca gcgaaaagat atagaaaaac tacagaaacg gaagattatg 300
gagacagact gtccacagtt tctatgggta ccttggcctc atatatgaac cgccacaagg 360
aaagagtgcc ttatcaagta cttgatatgg aagaaatact 400

<210> 2671
<211> 368

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-052-Q1-E2-H6
 <400> 2671
 agaaagcaag gaaaacagtc gcaacaaaac aggggaataa aaataaacia gaatgtgtgt 60
 cccaagttgc tgatatttta atggacaagc agcaatgcga aatgctacaa gaacaagtga 120
 aagaatactt gttacgttaa ctgggtcaaa acccggtgaa ctcaagggat gaccaggagt 180
 tcccagagtct atcaaagacg atcgaatcct tggttcgaaa tccagctcct caaggtgaat 240
 ccatcattct aataggacct gcaggctctg ggaagaagaa gctagtagag gaaattgtgc 300
 agaaaatgaa atcagaaagc cagactcaac gtttgaaagt gattcaactg tacggaactt 360
 ttcattgct 368

<210> 2672
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E1-A1
 <400> 2672
 cccacgcgtc cgcccacgcg tccgcccacg cgtccggcat gatgaagagc gctatgaagt 60
 tctttgtatt tagcattatt ttggcaaatg ttgttcttac tattcaagca gcaacgggtt 120
 tggagacttt ggagtcactg aatatatacag agtatcttga catggtaaag gctgcaggcc 180
 tggactcgaa gttcaacgac tctgctgtta catggactgt ttttgcagca aactactactg 240
 gagtcaatgc caccttggca ccaatgcact tggttatttc taatatcaca tctaattgca 300
 cggagagcat agacattgtg gaatatagct tgtacaacca tactcttttg tcaaatgata 360
 ataagacaag gagcacctat ccttaccgcc gtatacggaa tgaatttgac tgt 413

<210> 2673
 <211> 364
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E1-A10
 <400> 2673

gagccacgcg tcaatggaaa gaatcgctca agaaagagtt attctttgcg atatatcggt 60
tctctggttg cggacgtaca tagaacttta ctttatggtg gtatatttgg ttatcctgga 120
gataagaaga atcctaattg caagttgcga ctgctttatg aatgtgctcc gatgagttat 180
ttgattgaac aagccggtgg aaaagctacc aacggaaaac aacgtatttt ggatatcggt 240
ccaaacacga cccatgaacg acagcctctt atttttaggtt cggaagaaga cgtcgatgag 300
ttgatgcaac tctacgcagc caagttgcaa agtaaagtct agttgtgtct catggttgtg 360
atga 364

<210> 2674
<211> 365
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E1-A11
<400> 2674

gcgtcaaccc aaacgtccgc atggacctat tgcagcacct acaccaccac tagcgtacca 60
tctcaatgca gcaaggccgt gactacctat actcaaacct gctgtgctta tgcccaacaa 120
acttcctatg cagtcagtac cgagcaatat gttcaggaaa ctgtatctgc tcaatatact 180
tcttactacg gcgaatcatc ctccagctat tattaccgag cagctgctcc tcagagatgg 240
tatgaggaac aatgcacctc atactgctgg gttccagtac agacctatga aacttatcaa 300
tgttctcaag agaagaagaa ggagtacagc tctccttgtc aaacttatga gcaggtttca 360
actac 365

<210> 2675
<211> 354
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E1-A3
<400> 2675

ggcacgcgtc acgcttcata taaagcattc ccaacactgt tcgaaaaaat cactgcctaa 60
tgcgtttggc aattgatcat gtaaactctca ccattgacag tcgaaacact cattgatggt 120
acaaacttca acttgtgata caacattgag aagaagtacg actcagtttt gtcccaatac 180

aaatatactg gtccatgtca ttacatccgt acgatcaact tttgcttaag gggatcgttg 240
gcttgatgaa gaggagactt .gggaggagaa tactcataat aataatgagg atgatgagga 300
tgatgggaaa gagtcgcaac aacaacaaga agaaaagcgt ttacgcaaga tggc 354

<210> 2676
<211> 421
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-A4

<400> 2676

cccaagcgtc cggaacaag cattggaaga aaagaatcta ggcaatgaat attataagaa 60
gaaacaattc caacaagcta tcgaacatta taacaagct attgaattgg atccttgga 120
tttatcttat cttacaaaca gagctgctgc ctatttagaa atgggcgagt tggatagttg 180
tattgaagac tgtcagaaag cagtggattg gaacaaggaa tataacttga gaacagatta 240
taaaataatt gccagagctt atgcaagaat gggcaatgct tatgcaaaga aacaagatta 300
tgacaaagca atcgaatggt atgagaaatc gctgttgga tatcacgacg acaaagtata 360
ttcgaaaatg gtacgaaatg aagaaactca agaagaaatt ggaagaagag tcttatatcg 420
a 421

<210> 2677
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-A7

<400> 2677

aggccacaac caaacttttg tattgttttt gattgtgatg gtgtacttgt aaactcgga 60
ccttattctt gtgagtcctt tcgacaagct attcttcgag ctactggcgt ggatatccca 120
cacgagtttc caaacgacta ttttgaagtg tttggcttat ctgtctattc ttccattgaa 180
tattatgtga aaaagggaat tctacccgaa aacacagata tcgatggtgt ggctagaaaa 240
gtgaatgagt tgaaggatcc aatatatgaa gaattagcaa gaggaaagtt atcaactttt 300
cctggattga aggctcttct tgaggaagct tgtgcgaaaa aggttgctct aggtgttggt 360

tcttccggga acacgggaaa agatccgatt caatctaaaa caagcaggca t 411

<210> 2678
 <211> 259
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E1-B11
 <400> 2678

gcgtcaaccc acacgtccgc tcacgcgtcc gctcaacgac gtagtgagac tcactcagat 60
 tctctttgta ttgttctatt catctcgtat tccctatcgt tgcagtagct aatcctgggg 120
 tcagtaaadc gtgcctcttt tcactcgagg ggggtgaacac tctgatatgg tgctgcttat 180
 ctctggggga ggagaactga tagaacacca gctagactat ttatttttcc ggtctctaga 240
 ctttattcct ggtgaagga 259

<210> 2679
 <211> 142
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E1-B6
 <400> 2679

accaagcgt cagccaactc accaagatga atttgtaac catcactggt agatcatctt 60
 tgagatctaa ggtcctttct tttcttttct atatggaaaa ttcagggaga aatgggtttg 120
 tccagagctg ccgaattttc ca 142

<210> 2680
 <211> 60
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E1-B7
 <400> 2680

accaagcgt cagcagacac gtagggtcag gaatattctc gaagaagatg caattaagtc 60

<210> 2681
 <211> 98

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E1-B8
 <400> 2681
 actcacgcgt cagcccacgc gtccgaaaaa aaatagaaag agaaaaaaag gagaaaaaaa 60
 ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaagat 98

<210> 2682
 <211> 238
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E1-C1
 <400> 2682
 gcgtcaaccc acgcgtccga cacacataaa gaagaatgtc gacgacgctt attgaaaaga 60
 atgtggttca atgacttgag tacttttcca gtgacgtatt cggttcttct tttatgtgtc 120
 attacttggg aataagatat gcctgttggg gactagttac cgagttgtta ctacgttggt 180
 tattacttat caaggttggg cttatgatat cgttggttgt aactacgatac gagttggt 238

<210> 2683
 <211> 275
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E1-C11
 <400> 2683
 cacgcgtcca cccaagcgtc cgcgcattgcg tccgcccattg cgtccggatg ctcattccag 60
 gagatcgtca aagagcaacc agacttcgag ccacgagagc actcaggaag atggctctaga 120
 ggatgggtatt caaagcaata ccgtggagac cgatgtgtca cctccagggtg gtttaggcatt 180
 tgcgaatctc gactagttgg ctgaacacgc ggctcagagt ctgcgtctcc ctacgacgga 240
 acgctctaga cagtcccacg catggaggcc gtgaa 275

<210> 2684
 <211> 284
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C12

<400> 2684

cacgcgtcag ggaaacgatg agaccgatga tcgggatgag ctgcagagat ctcccagaga 60
agagcatgat ccgagcagac cggaagactc agtccatgag gccagagagc ctgatagggtg 120
agacggaggt cgaccccggtg ttctcggttg catcgaagtg ttaccgagtc gtagtttagg 180
gagtctctcg ctacggggac ttcgggcagc atgctgcacc cagtctcgcc tgacgtgaga 240
cggaaacgcg ggtggattcc ctccattgat gcggtcaacc cggt 284

<210> 2685

<211> 424

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C2

<400> 2685

gcgtcagaga gaagagagaa tgctgggtgg agtagcgaaa caagagaagg gaagtaaaag 60
gtaagaaaga ggaaagggtt acgagagaag gaagtagaaa gaagagagtg taaggcggcg 120
tcataataga aatccgaaag gagtagaaga aaagagagag aagaaagaaa agaagagaaa 180
agccgtactg aagaccgaca cagggtactcg aggagaaagg agacccaa at taagggtgaga 240
gaatggacga taaggaacta ggcaaaagga tatggtatct gcggtagaac atatgaaaga 300
agcagcaccg actgttttagc aaaaacacag cactctgcag aaaagagaaa atgtaaagta 360
tagagtgtcc ggcttgccaa atattagaga agaaatcgat gaaagtgaag gcgagtaaaa 420
gatg 424

<210> 2686

<211> 325

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C3

<400> 2686

gcgtcagccc aagcgtccgg tgatcgcgac ggagaaacgt atgccgtcca ttcttatgga 60
aagtcatact ttagaaaaga tatcttttat ttcggaaact acaggaatgg tgtattcggg 120

tatgggtcct gattcaagag tattattgag aaaggctcga aagtttgctc aaagttacta 180
tcaaacctat aaagagccca taccagtcgt tcaacttgta cgagaaacag ctttcggttat 240
gcaagaattc acccaatctg gtggcgtaag gccttttggg gttagtttgt tgatagctgg 300
ttgcatgaa caaggaccac acctg 325

<210> 2687
<211> 416
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E1-C6
<400> 2687

agggtgggttg tggagtaagt ggcgttggca gcaaactaaa agatggcaag aagaatcatc 60
ggagcttata tgtctgacgc tactgtagcg tctctattta gcgtgaaaat gttgttctac 120
cttacaatac ttgcgttctc tatcactatt gtgggtctta tgggtaagag ttccgacggt 180
atgtgggttc acagtgttcc agcgaaagac gaatattgtg catacaagtc ttcccttcaa 240
gtaaaccacc acggcatagc ttcctattgc aagtatatca tggctgtagc agctattggg 300
ttggttatca gcttcttcga gttttgggtat gcattcctcg gaattttctt caagtggcaa 360
caaaagtgtg ggtatattga atctgctatc aacgtgtttt tctgggcttg gtgggt 416

<210> 2688
<211> 357
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E1-C7
<400> 2688

agggtgggttg tggagtaagt ggcgttggca gcaaactaaa agatggcaag aagaatcatc 60
ggagcttata tgtctgacgc tactgtagcg tctctattta gcgtgaaaat gttgttctac 120
cttacaatac ttgcgttctc tatcactatt gtgggtctta tgggtaagag ttccgacggt 180
atgtgggttc acagtgttcc agcgaaagac gaatattgtg catacaagtc ttcccttcaa 240
gtaaaccacc acggcatagc ttcctattgc aagtatatca tggctgtagc agctattggg 300
ttggttatca gcttcttcga gttttgggtat gcattcctcg gaagtctcgt caagtgg 357

<210> 2689
 <211> 414
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C8

<400> 2689

agcccacgcg tccgcccacg cgtccgaaat attcgtagaa tggaaacaaat attggttgag 60
 agtcaaaaca aagcgcttgg acaggtgaaa aaggagacct tgtctataag gtcggtgaac 120
 cacgtttcct tttctgtacc cgaaccagtg aagacgggca agttcttttg cgagattctt 180
 ggctttcgag tggttcgacg acccaacttc aattttgacg gtatatgggt gtacagttat 240
 ggtattcaaa tacaccttat cgaaggtgct gctctgaaa gaccaaataat cttgaaacca 300
 aacacagacc atatattctt cgaagcggat gacctcaca gtatacagaa taaattggac 360
 actttaaata atccgtatct tttggagtat cacgaacggg agaacttgag acag 414

<210> 2690
 <211> 255
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D1

<400> 2690

cgacacgggt ttcttgtcct ctaagcggtt gcctttgcat cgttgtggga agaacacaac 60
 aaccttccca agccgccact ttccaaaatt ccgccaacca ataagaccaa gatttgaatc 120
 caaggccaaa tggatgaaca gtttggcaaa agatatgaac cccaaggaca gagaacaagc 180
 caccatccct tcgggggaaa ataagttggt gaaaactccc caagttgcca actttgaaga 240
 tatgggatat aaata 255

<210> 2691
 <211> 329
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D11

<400> 2691

atagatacgc ctaactgtag ttcacgattg atattgctgt cttgtttggt ctttataacg 60
 actataactt tggtaaagtc acaacgaaac tattataaag tgctgggctg ggaaaagaac 120
 gcttccgaga gtatgtgggt tagcggtcat tctccaagtt tctttgactt ttgttacgag 180
 aaattaagcg cgcgtatcat caactagcaa ggaagtatca cccggacaag aacggcggtg 240
 acaaccacgc ggaactgaca tttcgagaaa tatctgaagg taagtgtgg taacatgttg 300
 gcttctgct tcttttattc cagttgttt 329

<210> 2692
 <211> 394
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D12

<400> 2692
 aggtgagcga aattcacttc cttagtaact atgcgatgtt aattttgagt ttcacattta 60
 taggaaattt ctctaaaatt gacgattttc ttttattttt ttaaagttgt ttaaaaataa 120
 tttcaacagg tatccaaggt tctttttata gttcttgtga ttgcccgtac ttgggtggga 180
 ttggtttatg cgaggggctg ctgttttatt cgatgcccgt tccaagttc ctcgctcagc 240
 tccttattgt gggcgttaca tacttatttc gtgcgtttct tgaagcttac aagcaagctc 300
 tgtacaacgc tcaagtaaga agcactgcag cgggagcagc aagtcaagtt tttcgtgaag 360
 aaggaaaaat gtccgtcgaa gaagcttgta atat 394

<210> 2693
 <211> 256
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D3

<400> 2693
 cgcgtcaggg gcagcgtctg cacatcctcc agacatttgc ctttggatcg ttgaagcagc 60
 ctgtacaatc gctttcataa tctacggatt acgattotca ttgcagctaa ttagacggaa 120
 ggtaggattc agagcctcaa tattaatcag gtgtagcaaa agatagttcc accaagaaca 180
 ctgaccaaga cagcattctt tcaagagatt attatgtgtg ccaaactccc agattcgtcc 240

cagttaaaca caaggc

256

<210> 2694
<211> 412
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D5

<400> 2694

agaaagaagc caattcgagg tggaataacct ctgtgttttc cacagtttgg tccttatggt 60
tccctagcac aacacggatt tgcacgcaac tctatgtggc acttgaaaca aataggtaca 120
acgaaagatg gctcagccac tggagtcgtg ttgtctttat cttcaaaaga tgtggatgct 180
gcatggacct ctgctgggcc ttacgctttt actgcccaat atcagttggt attaggggtt 240
caaggtctac aaaccaatth ctgggtacga aatgaaggag aggagtcctt ttctttcacg 300
tttgcctttc acaactatth tgatgtatct gacgtctcta gttgtcaagt atttggattg 360
gaaaataatc cctaataaga atcgtcaaaa gaatgacgag tggaatgaac ga 412

<210> 2695
<211> 417
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D6

<400> 2695

gcaatatgcc tagtcataag gaacaaaata aaggaattaa aatatcagct gacggttacg 60
cactaaagtt gagcggattt cggttggacg tagacggcag tttggtcact atggtggacg 120
cagacgacct cagagccctc atgtttaagg aaagcctcaa ggaaaagtca aagctgcatg 180
acccaaaatt tttcaaaagc tattatgagg agaataagga ctacttttat tatatgactc 240
atacggagaa gaaaatgttt ctttctctgg aagttgcacg agaatacgct actctggtgg 300
gaaactcgtt tctgcagaaa tatttggaca aagtcattga gcacgaacac gcatactaaa 360
ggaaccaacg ttgttgccga taatttgccg tggtttgtct gtttgcgttc tgttggg 417

<210> 2696
<211> 410

<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D7

<400> 2696

aggcagctta caaatgtgag gaagccactt ccgacatddd gcgtgatatt gccaaaggaaa 60
cgtccaaaat gttgcgaagt ttagaagaag gagaaaaaat ttccaacctc ggttccaagt 120
ttcgagactt ggttcaccaa tgtttgagta ggttcgacag tgcagtttct gatgtgaatt 180
ccagtgtctt ggtgtcacga aaacgaagag aacttgaagc aatcattgac acctcattaa 240
atgctgtctt tgtgaaacaa ctgcagggtt tacgtgagaa tgctttgtcg cagttcaagg 300
cttccttatt ttcggaagag gttccgagcg attttgcggt ctttactgcc gacagtatgt 360
ttgttcgaaa agcgggaagga cccaattcgt cctggaagtg attgggtcgta 410

<210> 2697
<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-053-Q1-E1-D8

<400> 2697

agcccacgcg tccgcccacg cgtccggaat ggacgataag gaactaggca aaaggatatg 60
gtatctgcgg tagaacatat gaaagaagca gcaccgactg tttagcaaaa acacagcact 120
ctgcagaaaa gagaaaatgt aaagtataga gtgtgcggcc tgccaaatag tagagaagaa 180
atcgatgaaa gtgaaagcga gtaaaagatg aggtatagag aatggcggtc ctaactgtaa 240
ggatccaaag gtagcgaagt aaatagacgt ttgaaaggcg tccagtatga aaggagaaac 300
gagtgtagca ctgtctagtc gtccaactca gcgaaacagc aataactgtg aaaatgcagt 360
aaacgaacag tacgacggan agaccgcata attcttgact agatagggtt agggaggaga 420

<210> 2698
<211> 371
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D9

<400> 2698

gtggaaatat cccatcagct ttccaacctt ctccacgcgg tatacgagtg cgaatatacc 60
gaggtggagt ggctaccttg ggtttgttgt tcagacactg tcgaaaacgc aatagtatgg 120
gaagacatac tgggtgcttca aggcgccaaa ctgctggata tttatgctga aggattacaa 180
ctgttcaaca agtttcgctcg tcacctgatg aacgtgtcct ttgtgggaga cagcaaacta 240
tgggattcac tatctcgttt cttgctgttt atccaaccga gtcattctac ttgttggaac 300
tttcgaaagt ttctcgttca acaccatcac gtttcctatc ttatggagct aaaagtgagt 360
gaaattgcct t 371

<210> 2699

<211> 395

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E11

<400> 2699

accacgcgt ccgtgggttgt ggaacaaaag tggatcaaga aaggatgact tatgggtttg 60
ttggcgctag ttcttgttcc tgtttggttt accgcaatcc tcgcaacttg gctaaatgct 120
tcccaacaaa ggaacataaa attttccgct gcgctaccac acacacgtgt aaaactacta 180
tactggcggt agacaagtcg tcttcttcaa ctagtaatgt tggcaagaca gaacaaagca 240
agccttttga accgaagaag agtgaagagg caaatcctt tcaacagtcc ttttctagca 300
tgccttcgat gcaaaataac tggttttcag atccttccaa gttcaacgcc aaagtacaag 360
atgtagctca agacatactc catagaccta ctttc 395

<210> 2700

<211> 347

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E12

<400> 2700

ccacgcgtca gggaaaaaaa tggtaattta gttgaaatca attactctgg aacgtttcac 60
aaacgttcag caagagcaaa caattatgtc agttttctgc atcttctgaa agggcaagaa 120

atccacaaca cttgcgcttt tctcggcata tgtccttgag atatatcttt cggcctgtgt 180
ctccacttta ccaaagcatt cagaggccga ctccttgag atgtttccta tgtaatttat 240
gcatagtacg tactacaaag gatttgtcag tactatgttg atgaaaataa ggaaaagagt 300
ctgtctcctt gttcagagct attgtgtttg gcgtgcacga actgtcc 347

<210> 2701
<211> 349
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E2

<400> 2701

gcgtcagga aaaagaagga aagaatagt agtttgtaca acaatggcca gtgatccatc 60
gttgttttgc ttggaagaga gtagaggaag tcattcaagc gttaaagaca gagaccgaag 120
caactgcaga ttctacaagc aagtttgcac aacaagcctt ggaacagata ttgaaagggt 180
ctccaacgag tctcaaagta actttggagt ccatcgaaca agcttcaaag atgacattga 240
agcacacctt acagaaggat ttccgtatgt cgatgcactt tatgaaaggc cacgactttt 300
atgaaggcat tcgagcaact ttggtagata cgggtagaaa ccctaaatg 349

<210> 2702
<211> 418
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E3

<400> 2702

agagaaagag gaaagggatg aaatgcagag atctctagag aaaggcaaga aagaaaagaa 60
aggaagacac agtaaatgag gcgagaaagc ataggaagt aaacggatta ggaacccgtg 120
tagtctatgc agtaaaagaa agaatgagta agaaaaaagg gagtcattcc accaggggag 180
taaaggcgca agaaagaaac ccaaagcaat tgacgggaat cggaaaaagg ggtggatcac 240
gtaaattaat ccgataaacc gagaacctta cctctccaag aaggtgttgc acggctgtcg 300
aaagaacgtg ctgtgaagt agagaacgta cgagaaagcc aagtgaggga aaagagggaa 360
gttaaagggc ggccccagaa aggagagggc gtaagacgtg atacagagta ggaagaaa 418

<210> 2703
 <211> 327
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E4

<400> 2703

acgcgtcagc ccaaacgtcc gcttggatga aatgcgcaag atgtctagca aaaagtcaat 60
 cggcttgttc aagggtcatga gtgaataatg tctactaggtc atatgatgta attccgatta 120
 tcataccagt gtaggctatg cacatagggc gaaataatga cgtacaagtt taacggagtc 180
 attccaccag gggagtcaat gcgcaagaaa gaaacccaaa gcaattgacg ggaatcggaa 240
 aaaggggtgg atcacgtaaa ttaatccgat aaaccgagaa ccttacctct ccaagaaggt 300
 gttgcacggc tgtcgaaata acgtgct 327

<210> 2704
 <211> 351
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E5

<400> 2704

agttgggttg tccactggtc atggaggaag aagcggttatt caagtaagca gggtgtcctg 60
 tgggtgtgat atcacagaaa atttctagtt atgtgaatca acattcggaa gaatatatac 120
 accgtttgag ggaagccgtt gctctggatt cagttagttc ggatcccaat aaacgctcgc 180
 gttgcttggga tatggccaac tatatttgca aatggatcga aaaattggga ggaaagccta 240
 ttgtaaagca tataggcaaa caaacgtttc ctgatggcca agttttggac ttcctcaca 300
 tcctatttgg agactttact gtggacacca gggagaaacc agtgctcttg g 351

<210> 2705
 <211> 363
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E6

<400> 2705

aggacagagc tgccacagag ctacttgtga agactgccct cgaagagcac ggactgaact 60
 ttgatccctt agatacggac aaggacctgg tatatcctga gaaatattat gaggccttgtg 120
 gaggcgaaat gtggatcctt gaaaaggata acacagtggg tggctgtgct gcctttttgc 180
 ctattcctga tacgtgtgcg gtagagtttc gaaagatgta cttttctcct agcataagag 240
 gcaacgggta tggaaagcta atacttggag ctttagagta tcgagccttt gagttgggat 300
 acacataggg tagattggaa acgtcgcacc ttttagaagc tgcttgcaag ctttacgaca 360
 aga 363

<210> 2706
 <211> 87
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E1-E7
 <400> 2706

agcgtcaaga cagacctgcc aaagagctac gtttgaagac tgcccgcgaa aatcacccgac 60
 tgcgctttga tcccctagat agcgaga 87

<210> 2707
 <211> 407
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-053-Q1-E1-E8
 <400> 2707

agaatggagt ggagaaggaa gaggagacac tagtccaagt tcggatccat taacttttac 60
 caaactttat gtgggttcta ttcacttttc tattagtga gaagatttac gcactatttt 120
 tgagcctttt ggggaagtcg tttccttgca gcttcacaag gaccctgaaa cgggacgttc 180
 acgaggtttt ggttttgttc aatacagaaa ccacgaagat gcgaaaaagg cattggaaca 240
 attgaatgga cttgatcttg ctggtaggcc tttaaagggtt ggtttggcaa ctgcagagac 300
 tcagaaactt caagtaatgg gtgctattcc ttcgggagtt cctagtacaa tagctgcgaa 360
 gagcttatca ngtagggggtt atagtgcata tattagtgan atggatg 407

<210> 2708
 <211> 346
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-053-Q1-E1-F11

 <400> 2708

 ccacgcgtca aggacacgtt cggggtgaga ttggagatcc attcgtcgag gcttcggccc 60
 gtgacctaag gtcgtgacca gttataatat atttagtgca tagtaaacc tgtgtcgtgt 120
 gcgcgggtcc catgtcttat catagagatt gcgatcagta ttgggcttat gctaacctgt 180
 gacttggtag atcgcttggt gcagcttgta gactccgagg taataatcct tcaactctctc 240
 cagtcggttg aacaccacct caatatctca tcatcctcat agtcgccttg tgttactgag 300
 aacaccccca cagtggactc ctgtatcgag aaaactgggtg acgacg 346

<210> 2709
 <211> 242
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-053-Q1-E1-F12

 <400> 2709

 gcgtccaccc tcacgttcgg gggttacattg ggcctccact gatcgtggct gcgccccgtg 60
 tcctaggggtc gtggccagct ctactagttt cactggatac tacgaccaat gtcccgtgcg 120
 cgggtcccat ggcttttcct ggacgttgcg ttcagtatcg tgatgacct gccctggcat 180
 ttgtgagaga gcctgaagca gaatgtggaa cagcaggagac gagtccgtcg ctcgctccag 240
 tc 242

<210> 2710
 <211> 341
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-053-Q1-E1-F3

 <400> 2710

 cgcgtcaggt taacagagac aacatcgaag taatagaact ggtaagtgga gtaatcatga 60
 atcatatcaa cgaaggaatg gagaatatac cgaacgatta catgaaggac gagatactac 120

gagaaatgat aaggtggata tatatatcga taataagtgt gacagtaata tacacgagga 180
gaaagacagg aaagaggtgt atgatgcacg caaagaagtg acgcactaga tcagagagta 240
acacatgcac gtacgtaaag ccaacgggtg actcaagacg tgtgaaagag tggaacaaca 300
tgaaagcaca caagaatgta cgacatgggt acagtcacca c 341

<210> 2711
<211> 416
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E1-G1
<400> 2711

aggacaatgg ttgcaaagac tgctctgagt tgctctttc tctctttcct tatcgctgcc 60
gcagttgcag ccgacgtagt ttcagaggag agatggggat atgctcagca aaccaacaa 120
cagcaacagt gccacaagt atgtaaacag tatgcatact atcagagtcc agtctgcact 180
tccgtaacca cacagagccc atactggacc caatgctcga agactgtgca aacctttgtc 240
ccaagccagt gcagtactta tacccaatct cctacatgga cctattgcag cacctacacc 300
accactagcg taccatctca atgcagcaag gccgtgacta cctatactca aacctgctgt 360
gcttatgccc acaaaacttc ctatgcagtc agtaccgagc aatatgttca ggaaac 416

<210> 2712
<211> 411
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-053-Q1-E1-G12
<400> 2712

catctacaga gagtagcaat acgaaccgac aacctttcct cggcttgcct tcttctcagt 60
ccgtttcagg ctttccatat ttaagatctt ttttgattgt tattgttgct attctgggtga 120
cctcttttct ctctggaag cagcaaaaa cagtccacaa ggatgctccg ttattgacaa 180
gctcttattg cagaagcttc tctgggccta gctttccttt cgtattgcgt tctacaagag 240
tagtgacgga taaaggtatt tatattgtct tgtttgcttg tctaagtttt cgtcgttagg 300

aacttttccc gcttccatat ttgtcgatag cgctggtttc atctcgagag tagttcctgg 360
 tttggttgaa gactcgactt ggggttgtct tcatgatgta ngaaatctgg t 411

<210> 2713
 <211> 126
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E1-G2
 <400> 2713

gcgtcagtga aacaaacttt gcgaacgggt gtaggagtgc atacgacaca cacaggagta 60
 tgctttcctg ttttgtatac tgaattgagt atacctagt tagaatcact tagagaagaa 120
 cgccgg 126

<210> 2714
 <211> 288
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E1-G6
 <400> 2714

agcggacgcg tgggcggacg cgtgggcgga cgctgggagc aggatcgaat gcagacgctg 60
 tagttttgtg attgtttcgt gttttgtcaa gcttgtctca gtaataaaaa gtgacatttt 120
 tagttgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg aaggcagcaa aaaaggataa 240
 aaaacttacg ttaacgtgaa tgaaaattta aaaagctttt ttaaaggg 288

<210> 2715
 <211> 417
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-053-Q1-E1-H3
 <400> 2715

agcccacgcg tccggggcaa ccaactacca ccaaaagtag caactgcaag gaagaacaga 60
 gtgtcctaaa gaatagcaag ttgtgatgag gagaattggt agcaaactct tgtcttattc 120

cggcaatgaa gtaaaacttc gggatgttgt ttcttctcta agggagacga gtaaagcgac 180
 ggggtcttcc atccggagtt ggcttcgtga tatcaaccag tggatgaag acacttacta 240
 taaaaagga aaggtggatc ctttggta tttatgtta ctttgttttg gagtgggata 300
 taccatcaat tactcccata tcaaacataa agtggagcat aagaatgacg atattgaaag 360
 cttgttaaag tcancnttgt tgtgttggg tgatggctga cgcatagttg gtgatat 417

<210> 2716
 <211> 420
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E1-H6
 <400> 2716

agccaaaagt ttcaaactgt gttgttatga ctatgccatt ttgctttgta tttgatacga 60
 cttttaagtt ttcaaaaatt ccttatcgaa ggtcttctac cgacctatgt aaacccaagc 120
 accgttcgtc tccattgaaa cacaataccc aagcggctctt cttcaaggag accgaaaaga 180
 caaagtctac agaacctgtt aatgttacca gcgctcccaa ctcaaactca aagtcgggtca 240
 catttgacgg acagttgaat aagtctgctt ctaatacatc tccacgaacc aatatatctc 300
 tggactctgc aaagttaaag gagtactctt cgaagtttct caacgatatt tctttgcgac 360
 ccgggttcta cggccaactg gcactagctg gtctagttgg aatcatttgc atacagataa 420

<210> 2717
 <211> 357
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E1-H8
 <400> 2717

agcggacgcg tgggcggacc catgggctga cgcatagggt gataatggaa taatcgcgga 60
 tgcaaagcgc tctcggaggc gtatgcacag ggatagccag aaaactagcg aggaattctt 120
 aaatctcaag gagtatgtga aggagtagtg taaataagcg cagggtgcta tttgagtagt 180
 aaaatgtaaa ccgcgtgtct tttgcatcat gtcacagcta gtgatagggt aagcagatag 240
 cattggctca gacgtagcca tgtaacaccc gatactactt gatcttatgc tgtccaaacg 300

acgtaaagct ggaccagtat ctgtgagaac agatttggca gagatggcat aatgggt 357

<210> 2718
<211> 350
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A10

<400> 2718

atggaaagaa tgcgtcagga aagagttatt ctttgcgata tatcggttct ctggttgcgg 60
acgtacatag aactttactt tatggtggta tatttggta tcctggagat aagaagaatc 120
ctaattggcaa gttgcgactg ctttatgaat gtgctccgat gagttatttg attgaacaag 180
ccggtggaaa agctaccaac ggaaaacaac gtattttgga tatcgttcca aacacgaccc 240
atgaacgaca gcctcttatt ttaggttcgg aagaagacgt cgatgagttg atgcaactct 300
acgcagccaa gttgcaaagt aaagtctagt tgtgtctctt ggttgtgatg 350

<210> 2719
<211> 412
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A11

<400> 2719

ctgcccacgc gtccgcatgg acctattgca gcacctacac caccactagc gtaccatctc 60
aatgcagcaa ggccgtgact acctatactc aaacctgctg tgcttatgcc caacaaactt 120
cctatgcagt cagtaccgag caatatgttc aggaaactgt atctgctcaa tatacttctt 180
actacggcga atcatcctcc agctattatt accgagcagc tgctcctcag agatggtatg 240
aggaacaatg cacctcatac tgctgggttc cagtacagac ctatgaaact tatcaatgtt 300
ctcaagagaa gaagaaggag tacagctatc cttgtcaaac ttatgagcag gtttcaacta 360
cttaccagtg tggtcagtac gagtcccaac aagtttacta ccaatgccaa aa 412

<210> 2720
<211> 338
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A2

<400> 2720

acgcgtcaac actatcgaca atggatgcga caacggcatc aacagtggat gcaaaatgaa 60
gaagaagaat cgacagaaaa tcatcatggc aagccttggt aacgtcgaaa gacggcagat 120
agtagtaata gtagtagtag taacaatagt agcactagtc aaaaagggtcc tagtacgagt 180
gttttgggac atgttggtgc atccgatggc caagcaaaga aaagagggga ttgttgggtt 240
gatgaagaag agacttggga agagaatact cataataata atgaagatga tgacgatgaa 300
tggaagagt ctgaacaaca accagaagaa aagcgttt 338

<210> 2721

<211> 208

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A3

<400> 2721

tcaaccacg cgttcgcaac actgttcgaa aaaaacactg cctattgcgt ttggcagttg 60
ttctgtaaat ctctccattg agagtcgaaa gactcgttgt tgtagcatc ttcaacttgt 120
gataacaat tgggaggaag tgcgcctaag ttttgcacg aaaataacat acaagtccgt 180
gtcataatac gtgtgtagca agcgtttg 208

<210> 2722

<211> 420

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-053-Q1-E2-A6

<400> 2722

aggaggaagt attcaacaag gcagcggaag aagtaaaaaa actgtcttcg gcatccaacg 60
aagacaaact ggagctatat gggtacttta aacaagccaa ggagggtgat tgctccaccg 120
aaaaaccaa aggtcttttt aatcaaaaag aaaaagcaaa gtgggacgcc tggaattcca 180
aaaaaggtat ttccaaagaa gaagcacaga aaaagtatat cgaaaaggtc gatcaactat 240

gcggcacgca gtttcttcaa agcgtttcct agtcacctta ggtccttgct ctttttttgg 300
 tttgtcggtc ctaattccca aaaaatatga gtaaagtacc cgtttttttc cgcaaaaaaa 360
 aaaaataaaa cagaaaaaga aaccaatgta atctaaacaa taaaanaaan aatgaataag 420

<210> 2723
 <211> 423
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A7

<400> 2723

aggccacaac caaacttttg tattgttttt gattgtgatg gtgtacttgt aaactcggaa 60
 ccttattctt gtgagtcctt tcgacaagct attcttcgag ctagtggcgt ggatatccca 120
 cacgagtttc caaacgacta ttttgaagtg tttggcttat ctgtctattc ttccattgaa 180
 tattatgtga aaaagggaaat tctacccgaa aacacagata tcgatgggtg ggctagaaaa 240
 gtgaatgagt tgaaggatcc aatatatgaa gaattagcaa gaggaaagtt atcaactttt 300
 cctggattga aggctcttct tgaggaagct tgtgcgaaaa aggttgctct aggtgttggt 360
 tcttctggaa caccggagaa gattcgaatc aatctaaaac aagcaggcaa tccttcccaa 420
 ttc 423

<210> 2724
 <211> 364
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A8

<400> 2724

agcccacgcy tccggtttga ttgggctgtg gaagcagttg tagacttttt catgatgtgg 60
 tgggtggtctg ctgggtgcttt gagtgtgatg ataccgaaac ctactgccct gtttcagcgg 120
 agatatgggtt ttgggtttgga agttagtatg attgcagcct ttacctgggt gaactttgggt 180
 tttcacttta tcgaagtcta tttgtctatt ttgacgatat atgttggata gcgcaagcta 240
 gtccatactg aagaagatga agacgctgac tatgagggcg ctgatgctca ttcgggttttg 300
 tcggaaagga gtccctacaa gtctgtttgt gtgtgtgtgt ggtctcgaca tgtgggtggt 360

cttc

364

<210> 2725
<211> 87
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-B11

<400> 2725

cgctcatgcyg tccgctcaac gacgtactga gactcactca ttttctcttt gttttgtctt 60
ttgtggctgt cctcctcgtc gctcacg 87

<210> 2726
<211> 223
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-053-Q1-E2-B2

<400> 2726

acgcaatata tcaacaagtg acagctgcac attagtaaag cgaacgggtg agttaagatg 60
cgtgaacaag tgacggaata tatcacacag aaagattaag aaatgggttag agtaciaaagc 120
ataaggtagt aaaagcagga atctgatatg agganagcca cattggcact gacattatgc 180
ccaaacatca cacgtcatca ctggggaaca ttgggcaatg tac 223

<210> 2727
<211> 184
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-B4

<400> 2727

acgcgtcaac aaggactttg tactccttgt tacttgttgc ccggtgcaag ataagctcgt 60
tgaaaagtac tggctccga gtatagaatc gtacgcggaa tagccggctc caacagcgga 120
acacacaacc aaaatagttt attggcgtgt cttggaattt ggtcaaaaag gcctgtacgc 180
gaca 184

<210> 2728
 <211> 100
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-053-Q1-E2-B6

 <400> 2728

 gtcaaccaac tcaccaagat gaacttgtaa tccatcactg gcagatcatc tttccgatct 60
 aacgtccatt cttttcttat ccacaaacaa aactctcgga 100

<210> 2729
 <211> 72
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-053-Q1-E2-B8

 <400> 2729

 gacccaaacg tcagcccacg cgtctgaaga aactaacaaa aaaagaaaac cgaaacccaa 60
 tcgcacaaac aa 72

<210> 2730
 <211> 444
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-053-Q1-E2-C10

 <400> 2730

 ggtcgagcac gcgtccaccc acacgtccgc ccacgcgtcc gccacgcgt ccggatgctc 60
 attccaagag atcgtccaaa agcaaccaa cttcgagcca agagagcaac gaggaagatg 120
 gtggagaaga tggattcaa agcaatactg tggagaccga ggtgttacct ccagggtggtt 180
 taggcaatgc taatctcgat gagttggctg aaaatgctgc aaagagtctc gtcataagta 240
 ggacggaaag cgccaaacag tcccaagatg gaggcggtga agcggatgaa aacttggaat 300
 ggtgtgcgga cacatcaaaa gaagcaatta aggcaaggca agcggaaagct gcagcagctg 360
 caaaggtttt ggaaggtttg acggattcga agaagaagaa gaacgtcaat gttcctgtgg 420
 agaatgacaa ggaagtggaa aaag 444

<210> 2731
 <211> 424
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-053-Q1-E2-C12

<400> 2731

```

cgtccaggaa aagagagaaa gaggaaggga atgaaatgca gagatctcta gagaaaggca 60
agaaagaaaa gaaaggaaga cacagtaaatt gaggcgagaa agcatangaa gtgaaacgga 120
ttaggaaccc gtgtagtcta tgcagtaaaa gaaagaatga gtaagaaaaa agggagtcatt 180
tccaccaggga gagtaaaggc gcaagaaaga aacccaaagc aattgacggg aatcggaaaa 240
aggggtggat cacgtaaatt aatccgatat aaaccgagaa ccttacctct ccaagaagggt 300
gttgacacggc tgtcgaaaga acgtgctgtg aagtgcagaga acgtacgaga aagccaagtg 360
aggaaaagaa ggcaagtaga gggcgggccc agaaagagga aagggatgaa atgcagagat 420
ctct 424
  
```

<210> 2732
 <211> 354
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-053-Q1-E2-C3

<400> 2732

```

acgcgtcagc ccaagcgtcc ggtgatcgcg acggagaaac gtatgccgtc cattcttatg 60
gaaagtcata ctttagaaga gatatttttt agttcggaaa ctacaggaat ggtgtagtcg 120
ggtatgggtc ctgattcaag agtattagtg agaaatgctc gaaagtttgc tcaaagttac 180
tatcatacct atcaagagcc catatcactc gttcaacttg tacgacaaac agcgttcgtt 240
atgcgagaaat tcaccaaatc tgggtggcgta aggccttttg gtgtaaattt gttgatagct 300
ggttgccatt tttttggacc acacctgtat caggtcgata ctagtggaat ctcc 354
  
```

<210> 2733
 <211> 414
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-C6

<400> 2733

gtgggttggtg gagtaagtgc gcttggcagc aaactaaaag atggcaagaa gaatcatcgg 60
agcttatatg tctgacgcta ctgtagcgtc tctatttagc gtgaaaatgt tgttctacct 120
tacaatactt gcgttctcta tcaactattgt gggctttatg ggtaagagtt ccgacgggat 180
ttgggttcac agtggtccag cgaaagacga atattgtgca tacaagtctt cccttcaagt 240
aaaccaccac ggcatagctt cctattgcaa gtatatcatg gctgtagcag ctattggttt 300
ggttatcagc ttcttcgagt tttgggatgc attcctcgga attttcttca agtggcaaca 360
aaagttgtgg tatattgaat ctgctatcaa cgtgtttttc tgggcttggt ggtt 414

<210> 2734

<211> 251

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-C7

<400> 2734

acccaagcgt cagctcactc tgtccggata ttgccaatgg aatgctgaac ctgtacagag 60
gcaggtagga tcataccgta ttgatctatc acgtccatat tgtctcaagt tacctggaaa 120
ctgttgttct accttacaat aattgcgggg tcgatcacta ttgtaggtca tatcgctacg 180
acttccgacg gtatttgctg ttacactggt ccagcgattc gacgattatt ctgcatacaa 240
ctcttcctt c 251

<210> 2735

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-C8

<400> 2735

cccacgcgtc cgccacgcg tccgaaatat tcgtagaatg gaacaaatat tggtggagag 60
tcaaaacaaa gcgcttgac aggtgaaaaa gggagccttg tctataaggt cgttgaacca 120
cgtttcctt tctgtaccg aaccagtga gacgggcaag ttcttttgcg agattcttgg 180

ctttcgagtg gttcgacgac ccaacttcaa ttttgacggt atatggttgt acagttatgg 240
tattcaaata caccttatcg aaggtgctgc tctcgaaaga ccaaatatct tgaaacccaaa 300
cacagaccat atatctttcg aagcggatga cctcacaagt atacagaata aattggacac 360
tttaaattatt ccgtatcttt tggagtatca cgaacgggag aacttgagac agctgttc 418

<210> 2736
<211> 345
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E2-D1
<400> 2736

agcgacacgg ttttcttgtc ctctaagcgt ttgcctttgc atcgttgtgg gaagaagcac 60
actagctttc ctagtctgca cttttcgata tttcgtcaac ctattagaac aaagatggga 120
ctcaaggacc aagtgttgaa catgtttggc agaggatatg aacccaaaga cagagaacaa 180
gccatcattc cttctgggga acattatgtg ttgaaaactc ccctagttgc caactttgaa 240
gagatgggat ataaatatgc catgtttgga ctcggttgtt tctggggagc tgaacgtaag 300
ttttggcaaa ccaaaggtgt ttattctaca gctgtcgggt atgct 345

<210> 2737
<211> 395
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E2-D5
<400> 2737

agaaagaagc caattcgagg tggaaatacct ctgtgttttc cacagtttgg tccttatggt 60
tccttagcac aacacggatt tgcacgcaac tctatgtggc acttgaaaca aataggtaca 120
acgaaagatg gctcagccac tggagtcgtg ttgtctttat cttcaaaaga tgtggatgct 180
gcatggacct ctgcgtggcc ttacgctttt actgcccaat atcagttggt attagggttt 240
caaggtctac aaaccaattt ctgggtacga aatgaaggag aggagtcctt ttctttcacg 300
tttgctttc acaactattt tgatgtatct gacgtctcta gttgtcaagt atttggattg 360
gaaaatattc cctattatga tcgtcgaaag aatga 395

<210> 2738
 <211> 389
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-053-Q1-E2-D6

 <400> 2738

gcaatatgcc tagtcataag gaacaaaata aaggaattaa aatatcagct gacgggttacg 60
 cactaaagtt gagcgggtatt cgggttgacg tagacggcag tttgggtcact atgggtggacg 120
 cagacgacct cagagccctc atgtttaagg aaagcctcaa ggaaaagtca aagctgcatg 180
 acccaaaatt tttcaaaagc tattatgagg agaataagga ctacttttat tatatgactc 240
 atacggagaa gaaaatgttt ctttctctgg aagttgcacg agaatacgt actctgggtg 300
 gaaactcggt tctgcagaaa tatttgagca aagtcattga gcacgaacac gcatactaag 360
 ggaaacaacg ttgttgctga tagtttgcg 389

<210> 2739
 <211> 397
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-053-Q1-E2-D7

 <400> 2739

gcagettaca aatgtgagga agccacttcc gacattttgc gtgatattgc caaggaaacg 60
 tccaaaatgt tgcgaagttt agaagaagga gaaaaaattt ccaacctcgg ttccaagttt 120
 cgagacttgg ttcaccaatg tttgagtagg ttcgacagt cagtttctga tgtgaattcc 180
 agtgcttttg tgtcacgaaa acgaagagaa cttgaagcaa tcattgacac ctcatataat 240
 gctgtctttg tgaaacaact gcaggtttta cgtgagaatg ctttgctcga gttcaaggct 300
 tccttatctt cggaagaggt tccgagcgat tttgcgttct ttactgccga cagtatgttt 360
 gttcgagaag cggaagactc cattcgctct ggaagtg 397

<210> 2740
 <211> 393
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-E1

<400> 2740

agggaagaag aaggaaagaa tagtgagttt gtacaacaat ggccaatgat ccatcgttgt 60
tttgcttga agagagtaga ggaagtcatt caagcgtaa agaaagagac cgaagcaact 120
gcagattcta caagcaagtt tgcacaacaa gccttggaac aaatattgaa aggttctcca 180
acgagtctca aagtaacttt ggagtcctc gaacaagctt cacagatgac attgaaacaa 240
accttacaaa aagatttccg tatgtcgatg cactttatga aaggtcacga cttttatgaa 300
ggcattcgag caactttggt agataaggat agaaacccta aatggcaacc ggacaagttg 360
gaacaagtaa ctagagcaac tgtagaagaa tac 393

<210> 2741

<211> 443

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-E11

<400> 2741

ggtcgacgcc cgcgtccacc cacacgtccg tggttgtgga acataagtgg atcaagaaag 60
gatgacttat ggttttgttg gcgctagttc ttgttctgt ttggtttacc gcattcctcg 120
caacttggtt aaatgcttct caacaaagga acataaaatt ttccgtcgcg ctaccacata 180
cacgtgtaat actactatac tggcggtaga caagtcgtct tcttcaacta gtaatgttgg 240
caagactgaa caaatcaagc cttttgaacc gaagaagagt gaagacgcaa attcctttca 300
acagtccttt tctagcatgc cttcgatgca aaataactgg ttttcagatc cttcgaagtt 360
caacgcaaaa gtacaagatg tagctcagga catactccat atacctactt tctatgcca 420
gttgctagca gctactgttg gta 443

<210> 2742

<211> 428

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-E12

<400> 2742

cgtcaaggaa aaaaagtggg aatttagttg aaatcaatta ctctggaacg tttcacaaac 60
 gttcagcaag agcaaacaat tatgtcagtt ttctgcatct tctgaaaggg caagaaatcc 120
 acaacacttg cgcttttctc ggcatatgtc cttgagatat atctttcggc ctgtgtctcc 180
 actttaccaaa agcattcaga ggccgactcc ttggagatgt ttcctatgta atttatgcat 240
 agtaggtact aaaaaggatt tgtcagtact atgttgatga aaataaggaa aagagtctgt 300
 ctccttggtc agagctattg tgtttggcgt gcaggaactg tcgaaagctt catgataata 360
 tgtgtttttg tgtccaaaac aatggagctg cctttggata gcagaaatgc aagtgtctgt 420
 gccgtttg 428

<210> 2743
 <211> 274
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-053-Q1-E2-E3
 <400> 2743

agagagaaag aggaaagga tgaaatgcag agatctctag agaaaggcaa gaaagaaaag 60
 aaaggaagac acagtaaag aggcgagaaa gcatangaag tgaaacggat tangaacccg 120
 tgtagtctat gcagtaaaag agagaatgag taagaaaaaa gggagtcatt ccaccagggg 180
 agtaaangcg caagaaagaa accanagcaa ttgacgggaa tcggaaaaag gggatgatca 240
 cgtaaattaa tccgataaac cgaaaacctt acct 274

<210> 2744
 <211> 391
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E2-E5
 <400> 2744

agttgggttg tccactggtc atggaggaag aagcgttatt caagtaagca ggttgtcttg 60
 tggttgtgat atcacagaga atttctagtt atgtgaatca acattcggaa gaatatatac 120
 accgtttgag ggaagccgtt gctctggatt cagttagttc ggatcccaat aaacgctcgc 180
 gttgcttgga tatggccaac tatatttgca aatggatcga aaaattggga ggaaagccta 240

ttgtaaagca tataggcaaa caaacgtttc ctgatggcca agttttggac tatectccca 300
 tcctatttgg agactttact gtggacacca aggagaaacc agtgctcttg gcctattgtc 360
 attacgacgt caaacctgca gatatccaag a 391

<210> 2745
 <211> 374
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E2-E7
 <400> 2745

agggttgggt tgtccactgg tcatggagga agaagcgta ttcaagtaag caggttgtct 60
 tgtggttgtg atatcacaga gaatttctag ttatgtgaat caacattcgg aagaatatat 120
 acaccgtttg agggaagccg ttgctctgga ttcagttagt tcggatccca ataaacgctc 180
 gcgttgcttg gatatggcca actatatttg caaatggatc gaaaaattgg gaggaagcc 240
 tattgtaaag catataggca aacaaacgtt tcctgatggc caagttttgg actatcctcc 300
 catectattt ggagacttta ctgtggacaa caaggagaaa ccagtgctct tggcctattg 360
 tcattacgac gtcc 374

<210> 2746
 <211> 337
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E2-F10
 <400> 2746

ggtcgacgcc cgcgtccacc cacacgtccg gggtgagatt ggttttcttt tcgtccacgc 60
 ttcgttccgt tactttttgt cgtgacaagt tataatataa aatggccaaa gtaaaccctg 120
 tgtcgtcggc tcctaaacta agtgtaacta gagagatagc tatcgggtatt gggcttggtta 180
 tagcgtgtgc tatggtatatt cgccagtggc atctcggata cacggaaatg ataagaaaat 240
 attatcgcga gttggatgag caagaacaga gttcctcgtc gtcgtgaaaa ccgccttgtg 300
 tttgtgagat agcaataaag tggactcttg tttccat 337

<210> 2747
 <211> 267
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-053-Q1-E2-F3

 <400> 2747

 aggttatgat agaaaagatg gaagtaatac acatggtaag tggactaata ctgaatcata 60
 tgacagaagg aatggagaat ataaggaagg attacatgaa ggaggagatt atacgagaaa 120
 tgataaggtc gatatatata tcgataataa gtgtgatagt tatataaagg aggacaaaga 180
 gacgaaagag gtgtacgatg caagctaaga agtgaccac tagatcagag agtaacacat 240
 gcaagtacgt acagcgaacg ggtgagt 267

<210> 2748
 <211> 129
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-053-Q1-E2-F7

 <400> 2748

 ttgcatcgtc tgctctgagt tgctctttc gctctttcct tatcgctgcc gcagttgcca 60
 gcgccgctgt ttcagaggag agatggggat atgcgcagca gggccagcac cagcaacagt 120
 gccacaag 129

<210> 2749
 <211> 431
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-053-Q1-E2-G12

 <400> 2749

 gcgtccacat ctacagagag tagcaatacg aaccgacaac ctttcctcgg cttgccttct 60
 tctcagtcgg ttccaggctt tccatattta agatcttttt tgattgttat tgttgctatt 120
 ctgggtgacct cttttctctc ctggaagcac gcaaaaacag tccacaagga tgctccgtta 180
 ttgacaagct cttattgcag aagcttctct gggcctagct ttcctttcgt attgcgttct 240

acaagagtag tgacggataa aggtatttat attgtcttgt ttgcttgtct aagttttcgt 300
 cgttaggaac ttttcccgct tccatatttg tcgatagcgc tggtttcac tcgagagtag 360
 ttcttggttt ggttgaagac tcgacttggg gttgtcttca tgatgtanga aatctggtcg 420
 ttatgcctgg a 431

<210> 2750
 <211> 304
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E2-G6
 <400> 2750

gcgtcagcgg acgcgtgggc ggacgcgtgg gcggacgcgt gggcgaggat cgaatgcaga 60
 cgctgtagtt ttgtgattgt ttcgtgtttt gtcaagcttg tctcagtaat aaaaagtgac 120
 attttttagtt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggaggc cgcccaaaag 240
 gttaaaaaac ttacgtatca cgtgcatgaa atttcaaac ttttttaaag ggtaaaacaa 300
 ttcc 304

<210> 2751
 <211> 139
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E2-G7
 <400> 2751

accaagcgt ccgcccacgc gtccgatgga ggtaaactgg tgttgggttg gaggatcgag 60
 tgcagaagct gtagttttgt gattgtttcg tgttttgtca tgcttgtctc agtgggggaaa 120
 ggtgatattt gtagttgag 139

<210> 2752
 <211> 69
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-053-Q1-E2-G8

<400> 2752

ccacgcgtca gcccacgcgt cgggactagt tctgtattga ttggctctac gtctgccaat 60
agtttttgggt 69

<210> 2753

<211> 235

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-H1

<400> 2753

ggctctagaat tacggggccga gcacgcgtca gggagaatgg aagaggagga ggacgctgcg 60
tattattcac aaatagataa ggaagtagtc gagtctatgg aagtttccga gagtgtttct 120
gggtttcctg cagagacgga gaagccttat agaataccaa actttacacc attgactcaa 180
gacgactttg acgaagactt gtgggttttcc atggaataaa agtatagttt tttgt 235

<210> 2754

<211> 326

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-H11

<400> 2754

ggccgacgcc cgcgtccagg caagaaacac gcaaatactg gaaagcagtc atcgatgatc 60
gagaacggaa caaactgact atcacgaaga aaagatggag tagatcagga ccgaaagctc 120
acggaagtca gagtaagcgc aggagtcatc ttaatgaaag caggaaagtc attgctcaag 180
agagtgtaca cctcgtcact tttgcaaaat ctcaaacga gtgaaagagg aagccagaag 240
attgcatcac cagtagccag gtaacacccg aagctacttg atcatatgct gtccatgcga 300
actactgctg aatcaatacc tgtgga 326

<210> 2755

<211> 276

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-H2

<400> 2755

acgcgtcagc ccaagcgtcc gggaaaacaa cgtggaaact atcgacagaa ccaacttaag 60

tgtacctcca atagtgtctg aacgtatggg aaagcgtatg ttgtatgctg ccagtgttcc 120

tctcaccttt tttgttctcc tttttggttc cctattcgtg gcaaagtttc agtttgatat 180

tacttttatg ccatcggtag tagcgtatag ttcgttggtg cttatttttt gtaccatggc 240

agcactgagt tatggtattt tttccgcctc gtggga 276

<210> 2756

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-H3

<400> 2756

cccacgcgtc cggggcaacc aactaccacc aaaagtagca actgcaagga ataacagagt 60

gtcctaaaga atagcaagtt gtgatgagga gaattggtag caaactcttg tcttattccg 120

gcaatgaagt aaaacttcgg gatgttggtt cttctctaag ggagacgagt aaagcgacgg 180

ggtcttccat ccggagttgg cttcgtgata tcaaccagtg gtatgaagac acttactata 240

aaaagggaaa ggtggatcct ttggtacatt atatgttact ttgttttgga ctgggatata 300

ccatcaatta ctcccatatc aaacataaag tggagcataa gaatgacgat attgaaagct 360

tgtaaaggtc accttgttgt gttgtggtga tggctgacgc atagttggtg atatagga 418

<210> 2757

<211> 376

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-053-Q1-E2-H4

<400> 2757

cattgttgat gagaccgagg ttaataggga catgaagaca aggaaacctg ttctctttcg 60

gggtccagat ggtcgcttac atcgacagagc ttttatcgga ccgaaaaagc cacatactca 120

aataacaatt agagagattg acattggaac tttaaagcat agttcgagcg acccaaattct 180

atccgttagg agaaaaaagg cggtagaaaa cttcaataag caagtgatgc gcggcgatat 240

cgatgaatgg agtttgagga acctcgctta cactaccgat gatattcaag gctatgagtc 300
agattctgac gaggcacccg antattcaag taatgtcaat cagcactctc attcttatgc 360
aactgcgtcc aacagt 376

<210> 2758
<211> 95
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E2-H6
<400> 2758

gaccaagcgt cagcccacag tttcaaactg tgttggtatg acgatgccat tttgcattgt 60
acttgctacg acttttaagt tttcacaaat tcctt 95

<210> 2759
<211> 414
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E2-H7
<400> 2759

gaccacacaga cgtcagcgga cgcgtgggct aagctattac ttgtacaaga ggaacgtaat 60
ggattgacca agtgtgagaa gcaaagtcaa tggaacagga agaggaaagg cgaacacagt 120
agcgaataaa tctatagtag aaagcagtaa ggaaatgagt actgtgcatg aggacaggaa 180
agtatttgaa gaatagagtg taaagcgcgt agcttttgca taatgtcca tcgagtgaaa 240
gaagatgcaa taagaaagaa aaagaagtat ccatttaaga cccgaagcta gttgatctta 300
tgctgtcgaa gcgacataag gctgaccag tatctgtgga aaatgattta gaagagatgg 360
cataaggggt gacatgccaa tgacagctag tgatatctgg gacaccgcta aagc 414

<210> 2760
<211> 365
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E2-H8
<400> 2760

agcggacgcg tgggctgacc catgggctgt acgataggta gatcagggat cgatcacggg 60
 tgcaaaacgc cctcaaaggc gcaggcactt gaaaagcgag aaaagtagcg aagaaatcta 120
 aaatagcaag gagtaagaga aggactaatg taaatgaacg caggatacta tttgagtaat 180
 acagtgtaaa ccgcatacct tttgcataat gtcccagcga gtgaaagacg acgcaaaatc 240
 aactaatgga atgtggccag gtacgcctag actcccgatg atattcaacg gtacgagtca 300
 gattctgact aagcatccga taattcaagt aatgtcaatc agcactctca ttcttatgca 360
 actgc 365

<210> 2761
 <211> 373
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E1-A1
 <400> 2761

cggaaaaagg ggtggatcac gtaaattaat ccgatataaa ccgagaacct tacctctcca 60
 agaaggtgtt gcacggctgt cgaaagaacg tgctgtgaag tgagagaacg tacgagaaag 120
 ccaagtgagg aaaagaaggc aagtagaggg cggcccgaga aaggagaggg cgtaagacgt 180
 gatacagagt aggaagaaaa gagaagagag ctagaaagga ggtaaaagaa gagtaaaagg 240
 actagaagag gtacggaatt cacgaggaag gagcgtgaag gaaggaggaa tccaagtaa 300
 tcgaggaaga aaaagcttcg gtgaaagcgt gaacggattt tgtacacact gcccgtaag 360
 ttctggaagt gtg 373

<210> 2762
 <211> 332
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E1-A3
 <400> 2762

gcacgcgtcc gagggcgtaa gacgtgatac agagtacgaa gaacagacaa gatagctaca 60
 aaggaagtac aagaagacta taacgactag aagacgtacc gaattcacga cgaaggaccg 120
 tgaaggaagg aggaatccca agtaatcgag gaagaaaaag cttcggtgaa agcgtgaacg 180

gattttgtac acactgcccc tcaagttctg gaagtgtgct aagaataagc aggagaagta 240
taagagagta tgaaaagaag aaaggaagtg aagacgtaag acgtgaaaaa aaagcgtaag 300
acgtgatata gagtaggaag aaaagagaag ag 332

<210> 2763
<211> 361
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-054-Q1-E1-A8
<400> 2763

gcgccgtcgt ggtgtttttc gattcttctg ggcagtgttg ggtgagaata gtaaaacatg 60
acgagatatt ccaaggaacc agataacccg acgaaaactt gcaaagctcg tgcttcggat 120
attcgcgtgc actttaaaaa cacgcgagag acgggacgtg ctttgaaagg aatgagctta 180
cagagagcaa aaacttattt gaaaaacgtg atagagaaaa aagagattgt accctttgta 240
cgctatcgtt atggtgttgg tagaaaagca caagccaaac aacacggttt tcccaacgga 300
agatggccga agaagagtgc gttggtattt ttggacttgt tgaagaacgc agagtccaat 360
g 361

<210> 2764
<211> 364
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-054-Q1-E1-B11
<400> 2764

cgaaggaggt agaagaaaag agagagaaga aagaaaagaa gagaaaagcc gtactgaaga 60
ccgacacagg tactcgagga gaaaggagac ccaaattaag gtgagagaat ggacgataag 120
gaactaggca aaaggatatg gtatctgcgg tagaacatat gaaagaagca gcaccgactg 180
tttagcaaaa acacagcact ctgcagaaaa gaggtgtatg atgcaggcaa agaagtgcgc 240
cagtagatca gagagtaaca catgcaagta ggtaaagcga acgggtgagt aaagaggtgt 300
gaaagagtgg aagaacatga aagcacagaa gaatgtaaga aatgggttaga gtaaaaacca 360
taaa 364

<210> 2765
 <211> 384
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-054-Q1-E1-B12

 <400> 2765

agacgaaaag caaattccccg cgcctattcg ttcagaaaca actttagaag atgaacttgt 60
 cttagatgca ccagcacaaa agacattaaa cttatataaa gtagataatt atacttttgg 120
 cacgaagcag tcatcccaaa aacaacacga aagaaatcca cagcgtttaa aggaaaaata 180
 tcaagaaagg ggtttgaggc actctgttgc aggagtactt cttgtacatc accatcgaca 240
 tccgcacgtt cttgtattac aacaaaccaa ggactctgga agtttttggc ttcatgntgg 300
 gcgtttggcg tccaagtga ggtgactttg gagggttatc gaggaaactt agatatcgct 360
 taaggagtcn ctcacaagag aagg 384

<210> 2766
 <211> 381
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-054-Q1-E1-B2

 <400> 2766

agcgacaaca accatcagaa caaagtttgg ttggttccgc accgttatta cctcatcgac 60
 cagaacagca gtatgtgaaa aacacagggg aaccaagaag aagagtttgc aaggaatcaa 120
 cggaagagaa acatccaacg agacacaagt tgaatcatgc aaaaccacga gataaggaga 180
 ttttgaaga agaggaaatc ttcaatttac tagaagcttt tagaaagtat tttccagaac 240
 caccgagcaa tttgagagct caagaaataa ttgaagtagg tatttgcac ccttggcttt 300
 tgaataattc acaggagaaa gagtaggtct ggtaggttct ttacggagaa agaacagtgg 360
 gagctgtggg aaaacgtttt g 381

<210> 2767
 <211> 360
 <212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-054-Q1-E1-B3

<400> 2767

cccacgcgctc cggataaata tggaatcctg gaaggtttga tgacgaccgt tcatgcaact 60

actgccaccc aaaagacagt agatggacct tctcacaagg attggagagg aggaagagga 120

atthttgaata acattattcc atcttctact ggagcagcca aggctgttgg taaagttatt 180

cctgaactga atggcaagtt gacgggtatg gctttccgtg ttccttgtcc ggatgtttct 240

gtcgtcgatg tcacttttctg tttaaagacn acaaccactt atgacgattt caaggcaacg 300

atgaaagctg cgtcagaaag caaagcttta aagggaatat tggcatatac cgaagatatg 360

<210> 2768

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B4

<400> 2768

caacatcatc aaatgccaaa gggaggaaag aaagattctt caaagaaaga agccacaagt 60

aaacctgcag cagcagatgc taaaagacg acagaaaagt ctggtccgga agccaagttg 120

aagggaactg gtgcaaagaa acaatacaaa gttgactatg catgtgcagt cctgttatgt 180

tttgtgagtt ctgtttgata gtttccagct attcttttgg tagtgaataa agagaaaatt 240

ttttatattt aaaaaatttc gtttaaagac acaaccactt tatgacgatt tcaaggcaac 300

caaggaaagc tgcctcaaag atcaaagctt taataggaat attggc 346

<210> 2769

<211> 377

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B5

<400> 2769

gaaataataa aagagagaga gcaacgacga caaagaaaat gaggttattt caacgttgga 60

aaagaattgg caactatttc atctactcgc aatactctag tcgaccgaat agtttatttc 120

aagcagaccc taggaaatat aatatatatt tacagcatcg agtggagaaa cacctagtgtg 180
 cccattctat ggttcgagca tccctacata atcctcgctg tcttacaagt tcttcatcag 240
 aacaacaaca ttggaaccaa gtacacaaaa caacaacaac accaagtgtg gataatcatc 300
 ctagtcgtga agaagaaaag agtttgggtac tcgttcctgg tcaagagaca aaagaagaac 360
 aaggagccaa gcgacag 377

<210> 2770
 <211> 395
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E1-B6
 <400> 2770

atcggtgttg agatatgcaa acttccctcg cattctcttg ttggacaccg ttgcagcgaa 60
 cttcaaagaa cgtagtttgc tcgtctagtt tttgcaaaaa tagctctatt ccgttccatg 120
 ctaccaacag aaggagtgtg gtttttccgc tgtctttttt tggagcgcct gtcgttagtt 180
 ataagtggga agtggctgca aacctgcagc gaaggcagtt tggttcagtt tccatggagg 240
 tacgtgttga cgtacgtgaa ggtgaaccta tcgattctgc tatagcaagg tttcggagag 300
 aagttagcaa aagtggtcac ttgtttgagc tgaaaagacg acaagagttt gaacctaata 360
 gtgtgaagcg acaaagatca aggaaacaag ctcta 395

<210> 2771
 <211> 376
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E1-B8
 <400> 2771

cggacgcgtg ggcggacgcg tgggttttcc caacagaaaa tatacacaaa cagtgataat 60
 ctagaagaat acaatcaact tgagaaaaaa attcaagtaa tcacaacttg catctctatc 120
 tcatatcatc tttctatcat ggaccaagtc gatgcattct atgcattggt gttgtgttgc 180
 ttctagaaa aacttgttga gagtgctatg aactgtttgc caataaagac gacaacggag 240
 gtgcaatgcc catttattgg ttggagatcc aagcgtcgtg ttctgccaac gtacaaagga 300

taagcgtcca tagcaactat atatggcact tgcagctaca atgtatgcaa tgtagtgaaa 360
aaacgggggtg gattgc 376

<210> 2772
<211> 340
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B9

<400> 2772

tgatgagctg ttccaacggc aaaagagaaa cgagctctag tgcaacactg aatgaccttt 60
aaggcttgat ttttccgatt atcactactaa acgctgattt tacacacaac tcacgagaaa 120
ttgatattag agtcgacgag aaagaaacat attgagaact gatgttaatc tgtctagctg 180
ttggcaataa gacaagctac ggcgtctttc caagtttctt tcaactctta taaacaaaac 240
aagtaaaacg cctattcact actggtaaag tcttttcttt cgataaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa .ggaaaaaggg 340

<210> 2773
<211> 399
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-C2

<400> 2773

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgat gcggagtgga acataattta 60
cgacaagttg gaaaaaatcg tcgctacagg tgccaaagtt gtacttagta agttggccat 120
cggagattta gctacgcagt attttgccga tcgagacata ttttgtgctg gtagatttcc 180
agaagaagac atgaaacgtg tcatgaaagc caccggtgca agcatgcagt ctacagtga 240
taagctaact gatgatgttc tcggtacttg cgcattgttt gaagagaagc aagttggtaa 300
tgaacgttac aactttttca ctggttgctc atatgctaga acagcgacat ttattattcg 360
aggtggttcg gagcagttta tggatgaaac ggaacgttc 399

<210> 2774
<211> 137

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E1-C3
 <400> 2774
 tctatgcaga ctgacccca attcagggtta aaccatggat tacttcgggt tagtaatgat 60
 cgtttccaca agtcccgtag atgtattcag gaagttgggt ataggagctt aaggatcgca 120
 ttcctttgcc gatggaa 137

<210> 2775
 <211> 406
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E1-C6
 <400> 2775
 ggtgtatgat gcaggcaaag aagtgacgca gtagatcaga gagtaacaca tgcaagtagg 60
 taaagcgaac ggggtgagtaa agaggtgtga aagagtggaa gaacatgaaa gcacagaaga 120
 atgtaagaaa tggtttagagt aaaaaccata aaggaagtaa aagcgggaat ctgagaggag 180
 gaaagccaca ttggaactga gaaaagggtcc aaacaaggga agtaaagcct aagaaagagt 240
 aaattaggca agcaaaggca tgagagaagt ataatagcag aagcatgctt gaagaaaaag 300
 aaagagattt cagaaaggga agaaaagtca gctatagaga acaggtgaag gagaactcaa 360
 aaagaggaga gcaccgaacg atcgaagaag aaactttggg ggtaac 406

<210> 2776
 <211> 411
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E1-C7
 <400> 2776
 cccacgcgtc cgcaagaaca gtgggtgctt tgtaccatgt ctttctgtcc ttacaagtga 60
 ataggttcct atggttatct ggactcattc tggcagttgt aactattctt caaaccttag 120
 ttatgtatag aagctcaact atagaacaga aggtgtcctc taaacaaaag tcttcaaaga 180
 aagaccccg aaaagaacaa ggagtttcag gttgtcctt gacgtgggtc caataaaagc 240

agtcattcaa ctacgccatt cggttcacag ctatggtttc cttcttcac tttgaactga 300
 tcacatacaa ccggtagaag cgatgggagt cgagacaagc tagaaaaagg aactcgcaac 360
 aagtcaaagc cacaataag ttgttaaccg aataactgtc caatacgggt t 411

<210> 2777
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-054-Q1-E1-C8
 <400> 2777

cgccctccat atttcacttt acagacccaa aggagacctg gtatggcctc atcttgccac 60
 ttcccaaaag gcgttttcca gagtctgcca agtaagtttc aagtgcgtta tgggtgcgag 120
 cgttcatcct ccaaagtctc tttatataat acttattgtt gtttgaaaat aaactactct 180
 cgagtggcag taacttggat acttgctgca accatgtttt ccaccctacc tctgggtctc 240
 tgttttgata atactgctg gttttgctat gctgaaggga tagaacgtga tttaggcaaa 300
 gttggcgggtg gtgcagcaag ctcggggaaa acctctactg gtgtatctcg gactgtaact 360
 agaggagtga acctaagtgg agcagatttt tcgggacagg accttantgg tgtcagttt 419

<210> 2778
 <211> 359
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E1-C9
 <400> 2778

gccaatcaaa gctagtgata gctggtactc ctcgaaagct atataagtag cgtatgcagg 60
 aaagaagaag gtaaaggaag agaaggaaga agcagagagg gactatgagc gagaagggtgg 120
 atagtcgaga gggaaaaagc ccagaagcca agataaggta tcaaagtaaa gaaagaagga 180
 aaaggagaag aagagagggt aggcttagaa gcagcaaacc agagaggaaa gcgttaaagc 240
 atgaaagaaa agaaatccga aaaagaagag aaaaaggtaa gaaagaggac cgaatcaggg 300
 taagaggtag aggagcaaga agagaagaga gaatgctggg tggagtatcg aaacaagag 359

<210> 2779
 <211> 389
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-054-Q1-E1-D10

 <400> 2779

atcaattgtg tgttacctcg agaaacgtat atccacaatt ccttttctac tctccaagga 60
 gtgtaccaag aaaaaccgta aagaagacaa ctcaactcaa ttctgccaaa cgaacgagtc 120
 ctttctgcag taactttgaa gaatctgaag ctctgtgact gcgcacggtc acgagacttg 180
 tatgaaaagt actagctcaa gggtactact ggaacaaaac aatactgcaa ttcacttggt 240
 cgatccattg cttgcaagca acttacgagt caaacagcga ctggaagagg caccaacggt 300
 actattcttg caagaataga tatcgcttag tgcaacaaca taagtatata ttggtatatt 360
 tgcaatttta gttcgtcaaa agatgctat 389

<210> 2780
 <211> 378
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-054-Q1-E1-D5

 <400> 2780

cccacgcgtc cgcccacgcg tccgggtgtc cactcgtcga ggaagagcta taaggtttca 60
 agtggatgac gagaatttac gtgcaactag cagacttagt gtcggtgtac aagcaatttt 120
 tttgcaacct ggtgattgcc tagccgatgt ggatgtcatt ccatcgtcat ggctccaaaa 180
 gggatcctcg gagttgtatt tcttggcagt tggcaaatat ggaaaaggaa agagaataag 240
 agcattagat attccggaac gaaaacgata tcaagtagga gtttatgtga tgaagtttga 300
 tcggaagaag gaaccgaaag aagagcttcg atttttccgt gcgtgtcgaa gcgatgaagt 360
 tgtgttgtgc accaacac 378

<210> 2781
 <211> 334
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-D7

<400> 2781

gttggaattg agaggagggg cgacgagctc agcttgaaga ataattaact tgcgtggggg 60
tggacgttat ttatgaactt ggactctatt gacagatgaa ttaatgcgcc ttttgacccg 120
tttgacgacg cctcacgtgg atatgacgca acagtatgca aagatatagt gcatattcgc 180
ttgcaagata gatacggacg caagtgcatt acgacgattc atgggcttga cacataattg 240
gatttgaata gtattacata ggccttcaaa gaggagtttt gttgcaacgg ttgtgtcgta 300
tacgacgcac atctgggaag agtcagccat ctgc 334

<210> 2782

<211> 394

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-054-Q1-E1-D8

<400> 2782

caaaagtgcg agcaagtaag actcgatatt actagaatga agcgtacgtt gcagttcacg 60
ttgaccaagc tccaagatct gaaagcagcc tcattcaaca gagatactac gcacagagag 120
aaccggaagc aagtgaacgg agttgacgaa gaaatggaac ctcaagaatg gctccactgg 180
atagagacaa aggcagattc gtcaacactc gcatcattga aaagccaggt acaaacgata 240
tcaaaagacc agcaatggac ttttctgtcc tcncttttag agaaagccta ttcaaccgtc 300
aacagcgaag atttatcaac cgaatcctgc tcagtgaac agcttattca aaagaaagac 360
gaagaaatag cttttttgcg gcaacgacta gccg 394

<210> 2783

<211> 353

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-D9

<400> 2783

cccacgcgtc cgccacgcg tccgggacct cctctttcca aaaattatct ctaccacgtg 60
aaccgcaata cgaatagtga aggagaacat aaaaaacgtg caagatgtat acaagaacaa 120

ccgcaagttg ttttcgatcc tagcagcccg atggaagaac aagcagcgac atcaccacaa 180
 gatgaaagtc cggctccgag cagagtaat cctagtagtg catcttgga tgtattgtct 240
 ttaccagcag aaaaatggaa agagaaagca ttggatgcag agaaacgtgc tcagagaaca 300
 agacaagttg ccaaagcaaa gattaacgag tttcgtgaaa catgttatca ttt 353

<210> 2784
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E1-E10
 <400> 2784

aggatccatc taaagtccaa cctatggcta agatttgacg ggaaggagtt tatgccgcca 60
 cgtcccaaaa tcgaatttag ctgttgata aaattcggaa caaactatcc tcgattagat 120
 tacgcctacg tagatatgac tgacgacggt aattggatgt tgtacctcat tcaagtttct 180
 gtttcatctt ttccagctca tagcatagac ttagcacagt tggaacggtt gttcaagaaa 240
 actgatggaa ctgttcaact tgcttcgttg ctaaattcgt tctttgctga gggttttagaa 300
 gtctcgctg tgtatgatgc cagggagaag atagtgaact tcgaggtaac agactctcaa 360
 ggcatatctt ttcgagacag aatatctatt ttgtatgtga ct 402

<210> 2785
 <211> 290
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-054-Q1-E1-E11
 <400> 2785

agatacaatt gacggaaaca ttactacca aaaatattct ttctgcagcc attagtattc 60
 ctcttctga caaggaatgt aataataatg acgagaataa caattagagg ttatcccaag 120
 tttccgttct cttttcttcc tctttcattt gttccttgat tctttccaca attagattgg 180
 aaggggctaa gaaatagaaa atagtttcta ttccattctt cagtcgagaa ttgggaatat 240
 gtggttctat accgatataa agatgaccaa gaatggataa gaacanaana 290

<210> 2786
 <211> 262
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-054-Q1-E1-E12

 <400> 2786

 aggctctagg tccaaccctt gggttggttc ctccaaaatt taaccaaccc aattaactta 60
 tccccggaag ttgccaaaccg aagttacaaa ctttacaggc aactttatta ctacatacgc 120
 attcaaacat atgaccaatg caatgacgaa tacaggtacc cttgttggtt tccaaggagg 180
 tcctactaat ctcggttgga tgtatctcaa gttctttatg ccacagaccc aagacaagac 240
 tctcgaaaaa atgtgtgaaa ta 262

<210> 2787
 <211> 295
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-054-Q1-E1-E7

 <400> 2787

 cccacgcgtc cgagtttggg tgttttcttg gtagcagttg tacattcaac atcatcaaatt 60
 gccaaaggga ggaaagaaag attcttcaaa gaaagaagcc acaagtaaac ctgcagcagc 120
 agatgctaca aagacgacag aaaagtctgg tccggaagcc aagttgaagg gaactggtgc 180
 aaagaaacaa taaaaagttg actatgcatg tgcagtcctg ttatgttttg tgagttctgt 240
 ttgatagttt ccagctattc ttttggtagt gaataaagag aaaatttttt ataag 295

<210> 2788
 <211> 373
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-054-Q1-E1-E9

 <400> 2788

 agtttgggat gtttggcata agaaagctcc catgcagaat tatctcttac acaacacaaa 60
 attctgttcc gagtttggaa tgcaatcgct ttgttcggta gagacatgtc gtttattcgc 120

accggaatca gaaatgaata tgtttaattc catatttgaa agtcacccaaa agaacagagc 180
aggcaacgaa atcatgttgc attatatttt tcagttgttc caatttcctc gtcatacaa 240
aagtttatcc tatctttcac agctgaatca agctctatgt atgaaatgtg gcgtcgaaca 300
ctttcgtaga caaatgccgt tttgcatggg ctctctttac tggcagctga atgattgttg 360
gccagtgact agt 373

<210> 2789
<211> 393
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F1

<400> 2789

aaagtattcc ggtggaatga ggaggcgggtt aagcgttgcc gtttcgctta ttggatttcc 60
ttcggttgtg ttattggacg agccttcac aggactagat ccagactcca aacacaagct 120
gtggcaatgt atccaacaga gaaaagaggg caaaactatt gttttaacga cacactccat 180
ggaagaagcc gaaagactgt gtgatcgta cggattatg gccagtggaa gtttgaaatg 240
tgttggctct ccagaggaac tgaagattcg tcttgaaaa ggcttcgctc tgaatatttc 300
ttgtccaaga agacgcgta aacaagttct ttcgtttata gaacaacagt atgcagatgc 360
atttttggac cattccttaa cgggtagtgt tgt 393

<210> 2790
<211> 391
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F11

<400> 2790

agcccacgcg tccgccacg cgtccgccca cgcgtccgcc cacgcgtccg cccacgcgctc 60
cggccatttt tcttgtggaa agcgttcgat agaaaaatgc caagagttgt tttggcgctt 120
tgtaataact cgttggtaca tatataaatt atgaataaag aaaatctcca aatagcgcaa 180
tttgagagac tcacaacaga gcaaatgctt aatctggtga aagaaccttc taggggtttg 240
tactacacag tcgaacactt gaggaacga gggatacctc gtctgggttcg cgaacaagag 300

aaactcgaca cagttattag taaggaggac gacctcaaga tagactgtca gtttgtacag 360
gagacgatgg aaatgtttcc tgcagctgca g 391

<210> 2791
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F6

<400> 2791

agccccacgcg tccgagaggg gattggtggg tcacgaacga gaggatgttg ttcttttcgt 60
ttttcaaaac gtttatcggc aaaacagtta cagtagaact caaaaacgat gtaattattc 120
gaggcaaagt acattcagtg gatcaatatc taaatatcaa gttggaagat atagaaatac 180
tcaatataga aagttgccc aagttgatga ctttgaaaaa ttcttttatt cgtggtagt 240
ttattaggta tattcaagta tacgctatcg acgtcgactg cgagatgcta caggaagcag 300
ccagaagaga atacaaggag ttgaagaaag tagccaaata gggcgcaaga cacacgtgac 360
cattgtctat ctatccacgg cgtgatgaac caactgcaac ttttgt 406

<210> 2792
<211> 390
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F7

<400> 2792

agcagatggc caacgctggt caagatggcc ttgtgcaagt caacaaacat agaaaagtaa 60
agagattgca agaagataat atttaataga gcactatcac aaccaggaga tgtattttctg 120
tgcttttgca acatccagtt gttggtgaat gcagaaagag ctattatagg aaatattact 180
tgtccagaaa gtatcgaatt gtgtcgtcta ttagctggac atatagcggg ttggttcgat 240
gaacatttgg atgactttcg tttggaagct atcttgggag cactattgtg tacttgttat 300
tgtgagtgga agcgttttga aggagaattg ggggtacaag aatggaatga attggagaag 360
atatcttcct tagatacttg gaagcttgtg 390

<210> 2793

<211> 140
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-054-Q1-E1-F8

 <400> 2793

 ggtcaggagt ccccgggccg acgcaaactg cagcatatgg caaacactgg tcaacattgc 60
 cttgtgcaag tcaacaaaca tatactattc gagagattgc acgatgacaa tatttactag 120
 agcagtatca caccagggg 140

<210> 2794
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-054-Q1-E1-F9

 <400> 2794

 cccacgcgtc cgcggaacgc tgggtccttt tcgtacattt tggattgtgg cacacaacat 60
 gaaaattcct gtccgactcg tcaagttttc tttggaaaaa aagaagccaa cttgtttcaa 120
 cagaagtata agtgggaatcg cctacacttt ttctcgccat ggacagggtt ctgatgtctt 180
 gaaaaaggag actcaaagct atgatgagaa gaaacttggt ccttcgcaag tactcgtgtc 240
 gtttcttgcc tcaagtatag gcacaacaga tttggcgtgg ataagaggta tgggaaagat 300
 aacagaagaa ggatccaagt tgcctttggt tgccggttta gaagggtgtg cagaagtagt 360
 agcaactggc aatcaagtca agtccgtggg tgttggagaa cgcggtgttac ctt 413

<210> 2795
 <211> 387
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-054-Q1-E1-G1

 <400> 2795

 ctcaagcaga actgcttctc agttagttac gcaatatgcc tagtcataag gaacaaaata 60
 aaggaattaa aatatcagct gacgggttac cactaaagtt gagcgggtatt cggttgagcg 120
 tagacggcag tttggtcact atgggtggacg cagacgacct cagagccctc atgtttaagg 180

aaagcctcaa ggaaaagtca aagctgcatg acccaaaatt tttcaaagc tattatgagg 240
agaataagga ctacttttat tatatgaçtc atacggagaa gaaaatgttt ctttçtctgg 300
aagttgcacg agaatçacgt actctgggtgg gaaactcgtt tctgcagaaa tatttggaaca 360
aagtcattga gcacgaacac gcataact 387

<210> 2796
<211> 387
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-054-Q1-E1-G5
<400> 2796

caaatggcgt cctttctact caggatagcc tcgctgtçtt tttgacatgt ataggacaag 60
tcattccacg tttttccaaa gtatttagag gcgttgggaa aacttttgtc catagcaagg 120
ccatcgaccg tgtgacggat gtgttggata tgctçttata ccaagggcct tgtggttggc 180
gttatatgac gaatttgatg gataaagaca aagtcgatat ttgtgtggat gaaaatggag 240
gtttaggttg tagttggatt cgtgaaagag acgggttggt tttggtgçtt tçttgggttaa 300
gtttgttgtc ttggaaaaat gaaaatcgat cagagtggat gagcatagag gatgtgatgg 360
aacaacattg gaacatgtat gggaaag 387

<210> 2797
<211> 223
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-054-Q1-E1-G6
<400> 2797

ccgggccgac ccaaacgtca gcacatggcg tcctttctac tcaggatagc ctçgctgtçt 60
ttttgacatg tataggacaa gtcactccac gtttttccaa agtacttaca ggcgttggga 120
aaacgtttgt ccatagcacg gccatcgacc gtgtgaccga tçtçttggat atctçgttag 180
taccactggc çttgtgggtg gcgtcatatg acgaatçtga tgg 223

<210> 2798
<211> 414
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-G8

<400> 2798

cccacgcgtc cgaatttttt ttggttcctt ttcgcatgtc ttcagcagca gttggttcgc 60
aggcagaaaa ccaagacact cgacgtgcca acgcactaaa ggagtatcaa agagtagtct 120
cccagcatag agatattgaa aatagagtgc gaaggcttcg tgaggaagtg aaaactctca 180
agcaacaatt tgataagacg gaagatgact tgaaagcttt gcagagtgtt ggccaaatta 240
ttggagaagt tcttcgagct attgatccgg agaaatttat tgtgaaggct tcaagtggtc 300
cacgttatgt cgtcggatgt agaaacaaaa tcgatagaga taagctcgta cagggagcac 360
gtgtctcttt ggatatgact actttgacca ttatgcgaat acttcctcga gagg 414

<210> 2799

<211> 286

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-H1

<400> 2799

agaaaatatg atacgacgaa aatgccaagg aaaaaaagtg caacagaaaa aaaacgttga 60
tattgcaaaa gtttcttttc ggatattaca gtctctacat tttactcagc gagactctac 120
aaggttgacc taaaaaaata ttatattcta gtttccaag cataggtata ctactcgta 180
atgactacgt attcaaagtc ttcttccaaa tttctgtaaa taactagcaa gcgtttgctg 240
caaacgatcg gacaagttta ctttgataac gtttttcaac gttgga 286

<210> 2800

<211> 383

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-H11

<400> 2800

aaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa 60
aaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaacag ggggggtccc cttgggggttt 120

caatgttttt tttcctgtgg ggttgggtctt gagacttttt ggggcgttcc tcttactttc 180
tattctgggc ctgtcttttt acatcttctt actgggaaaa cccctgggtg tttccctttt 240
acccgcttgt gctgaattcc ccttttcgcg ggatgggtgt ggttcttata gggctttccc 300
tgttttgcct ttccaatcct tttgtccacc tgtgatggga aatgggaacc cccctttttt 360
tggccctttt ccccggtggg gtt 383

<210> 2801
<211> 359
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-H12

<400> 2801

aaggacggtg ctagtgtgc tctttggact tgccgcctat ttctctatac agttgtgtta 60
gcattttcag caacaataat tggacgtgat ggaaagaagg cagataacat atggaacgat 120
gccctagatt atcatggaaa agtgggtgaac ttttgtgcat attcggcttc gtcagttttt 180
gaaagtggcg accatggcgc atgtaaatat gtgatggctt tggcttctat cagcttgatt 240
ttagttttct ttcgttgggt ggcctccatt gtcgacgcat tgtatccaat tcttaciaag 300
ttctgggttg tggagcttgg tatcaagata ttccttacta tgtagtggat ggttgggtgc 359

<210> 2802
<211> 281
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-H4

<400> 2802

ccacacgtcc gcccacgcgt ccgccttcct acaatcaata ttcttcttcg tacggttcct 60
ctagctatcg tctcttaact gcagacgaaa accaacttgt gagcagagga ggttatgcac 120
caacaaacca atgtattcta gttcctatcc aatgctgcac tgattgcaaa caatgctacg 180
ccgcatggag ttcttaaata ctgatacagt gctcggatag aaagaaacaa atatcaacgg 240
atgtttgttt cttttacgtg aataaaactt gtgttcataa c 281

<210> 2803

<211> 334
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-054-Q1-E1-H5

 <400> 2803

 cccacgcgtc cgcccacgcg tccgatcgct ataggaaagt gagcaataca gtcttcaagg 60
 caacagcttt aacgttgctg actgctgcag taattggaaa cctatacata ttcgcaaact 120
 tgctcagcat agtttcttac agaagttcaa agaaggagct gacggaagcc agtagtactc 180
 aggaaaactg agaaacacaa gttgtcttca cgtctggagg atggaaatat tatctgaagc 240
 taggctgggg gtctgttcct tgtagaagct ctggtgtttt gagaacttgc aattgttttg 300
 ttctttgtag taaagaaatt gtcttctttt ttct 334

<210> 2804
 <211> 377
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-054-Q1-E1-H6

 <400> 2804

 aggcttcggg ctataaactt aagatgttgg tgattatctt tgaaatgggt gtagctttcc 60
 actccgtaat tattggctctg aatcttggaa taagcacagg atcgacattc cgtacgttgt 120
 ttgctgctct cgtatttcat caattctttg aaggatttgc tgtcgggtact actgtttctg 180
 aagcccagtt tggcacttgg attactatag taatgggtact ttgctattct ttggaaactc 240
 caatcggtat atctattgggt attggtattg cacacactta tcaagaaaac tcctcggcat 300
 ctttgtaac gagaggcatt ttggatgcca tctccggtgg aattttaata tacacaggat 360
 tgggtggagtt gttgact 377

<210> 2805
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-054-Q1-E1-H7

 <400> 2805

agcccacgcg tccgcccacg cgtccgcccc cgcgtccgga caaagcctaa tccgaaacaa 60
ggcattttctc agatgaagtg gagttttgat ggaaagtatt tggcttcttg taatgaaaac 120
actccgcatg tcctctggat ttggaatgtt cttgaaatgg aacttgaagc agttttgata 180
tgtcagacaa ctattaagac aatacagtgg aatccatatt gcttacaact tgcttttgtg 240
acaggttccg aatatctatt tttatggaat tctcaagggtg ctgtcagtgt tccattaccc 300
tttctgagt tttatccgca gtattgtact tggcctttgc aagagaaagg gacacttttg 360
cttgctgaca agagccaatt ctgcctcgcc atggaagaag aataaagctg caa 413

<210> 2806
<211> 382
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-054-Q1-E1-H8
<400> 2806

agctgacgcg tgggggaaac gttaggctgg aggttggtta tagattactc attgtgcttg 60
gcctgaagga cgatgagcac tatctcggtt tctctcaaga aaccgggata tgattccttt 120
ctagggtttg ttcctataca atgtattggc ttgtcaccaa tgaaactatt caatacgtgt 180
tgtgctcgac cgatgagagc ttggacctct ccaaccacca taaagtgtat ccaagacaac 240
ctccatgagt ggggttcgttg taaagtantt cgttgtggac aaaaacatat atttctaggc 300
cctatcaaca gcttaactgg ttccaaggca ctgcctatcg aaatanaaag ccaactggat 360
gccgacttgt tgcgttctgc ac 382

<210> 2807
<211> 373
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-054-Q1-E1-H9
<400> 2807

agcccacgcg tccgcccacg cgtccgcccc cgcgtccgat gcagcccatg tacagtagca 60
gagaaaggta tccatattat gacgggtgaag tatatgatga cacgggtggtt gttcccccg 120
aaacgaggcc caaaggaaga cgtgtcatag tagaagagcc agaagagtac ggaatgccgc 180

caggggacag agatgatagc gaagatgacg agcacattgg tgggtggaga agaagagagc 240
 agcacagcat gcagccttgg gaccagtcac cttttgaaca ttttgacaga cttttcgaaa 300
 atccccctttc tgcaatggag agaggaggat tcggtggatt atttggtaac ttggaacagt 360
 ccttaagaag act 373

<210> 2808
 <211> 378
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-054-Q1-E2-A1
 <400> 2808

cggaaaaagg ggtggatcac gtaaattaag ccgatagaaa ccgagaacct tacctctcgc 60
 aagaagggtgg tgcacggctg tcgaaagaac gtgctgtgga gtgagagaac gtacgagaaa 120
 gccaaagtgag gaaaagaacg caagtagacg gcggcccgag aaaggagagg gcgtggggacg 180
 tgatacagag tacgaagaaa agagaagaga gctacaaagg aggtaaaaga agaggtgggg 240
 aggacgaggg gagggagcgg gggggcacga ggaangatcg tgaaggaagg aggaatccca 300
 agtaatcgac gaagaaaaag cttcgggtgaa agcgtgaacc gagtttgtac aactgccccg 360
 tcaagttctg ggagtgtg 378

<210> 2809
 <211> 435
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-054-Q1-E2-A12
 <400> 2809

aattcacggg ctaccgtctc gggttatattg aagaatcatt ttccggaatg tgagcaacaa 60
 ctagagcaat ggttggtgga tacctgtggg atcaaggaaa cgggtgaaga tttttatatg 120
 cgttggaacg agcaacacat gtcttggttg caaccttttg aagaaagtca acgacaatgg 180
 ttgcaaagat tgtattccac agcaccgatt gtacaattgc aagggaagat agaggagtgt 240
 gaagatatcc ggattcaagt gagttggaaa gtatcgctat cctatgataa gcaacgcagt 300

ctttggtgga atcagaatag caacaaaaga gccagtcggg aaacttggtta tattctactg 360
 gtaaatacca aactgggaa aataagtgtt tttcgaagag ttgcgtcnct gaaaaaacag 420
 gtgacaagga cattg 435

<210> 2810
 <211> 395
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E2-A5
 <400> 2810

agcccacgcg tccgcccacg cgtccgggat gccagcctta ttggtacaag tagcctattg 60
 tattcatgat gtgccaccta tatctacctg tgtagcact atgttctccg agttttggag 120
 aagtcacac gaggaatggc ccaaacaaaa gcaaatgttg cgggccgatc aaagagaagc 180
 gttgaatgaa ttgtcatcg caccaagtta ttatgcttga agcgttgccg gcgcgccagg 240
 gaagccaggc tcgtggcatt tttttttaa aaaagaaaa agacgaaaa aaaaaaaag 300
 gaaagaaaa aaaaaaaaaa aagaaaaaa acacggaacg gagagggcga aaaaacgaaa 360
 aacgcgggga acgcaaaaaa aaaggggggg cccc 395

<210> 2811
 <211> 167
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E2-A8
 <400> 2811

gcgcggtcgt ggggtttttc gattcgtgtc ggcagtgttg gctgagaata ggaaaacatg 60
 acgagatatt ccaaggaacc agagtaaccg acgaaaactt gcaaagctcg tggttcggat 120
 agtcccgtgc acgttaaaaa cacgcgaaaa aacggacgtg gtttgaa 167

<210> 2812
 <211> 216
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E2-B11

<400> 2812

gtcagcgaaa gaggtctatg agtagagaga tacgtcagag tagaatagaa aagccgtact 60
gaagaccgac acaggtactc gatgagaaaa gagacccaaa ttaacgtgag agaatggacg 120
ataacgaact acgcaaaatg atatggtatc tgcggtagaa catatgaaag aagcagcacc 180
gactgttttag ccaaaacaca gcactctgca gaaaag 216

<210> 2813

<211> 382

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B2

<400> 2813

agccacaaca agcatcagaa caaagtttgg gtggttccgc accgttatga ccgcttcgac 60
cagaacagga gtatgtgaac aacaaagga aaccaagaag aagagtttgc aaggaatcaa 120
cggaagagaa acatccaacg agacacaagt tgaatcatgc aaaaccacga gatggcggag 180
attttggaag aagaggaaat cttcaagtta ctagaagctt ttagaaagta gttgccacgg 240
gcagccagca gcgtgagagc tcaagaaata attgaagtac gtatttgcat cccttggett 300
ttgaataatt cacaggagaa agagtaagtc tggtaagttc tttacggaga aagaacagtg 360
ggagctgtgg gaaaacgttt tg 382

<210> 2814

<211> 328

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B4

<400> 2814

caacatcatc aaatgccaaa gggaggaaag aaagattctt caaagaaaga agccacaagt 60
aaacctgcat cagcagatgc tacaaagacg acagaaaagt ctggtccgga agccaagtgt 120
aagggaactg gtgcaaagaa acaataaaaa gttgactatg catgtgcagt cctgtgatgt 180
tttgtgagtt ctgtttgata gtttccagct attcttttgg tagtgaataa agagaagatt 240
tttgtagatg tagagagga aaaagaaaaa aaaaaaaaaa aaaagaaaaa aaacgaaaaa 300

aaaagggcag ccgccccaaa ggatccaa

328

<210> 2815
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B5

<400> 2815

gaaataataa aagagagaga gcaacgacga cggagaagat gaggttattt caacgttga 60
aaagaattgg caactatttc atctactcgc agtactctag tcgaccgaat agtttatttc 120
aagcagaccc taggaaatat aatatatatt tacagcatcg ggtggagaaa cacctagtgtg 180
cccattctat ggttgcagca tccctacata atcctcgtcg tcttacgagt tgttcgtgag 240
gagagcaaca ttggaaccaa gtacacaaaa caacaacaac accaagtgtg gataatcatc 300
ctagtcgtga agaagaaaag agtttggtag tcgttcctgg tcaagagaca aaagaagaac 360
aaggagccaa gcgacagagt cttcgagacc gaatattttc aagtttttcc g 411

<210> 2816
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B6

<400> 2816

agatcgttgt tgagatatgc aaacttcctt cgcattctct tgttggacac cgttgcagcg 60
aacttcaaag aacgtagttt gctcgtctag tttttgcaa aatagctcta ttccgttcca 120
tgctaccaac agaaggagtt gtgtttttcc gctgtctttt ggtggagcgc ctgtcgttag 180
ttataagtgg gaagtggctg caaacctgca gcgaaggcag tttgggtcag tttcgatgga 240
ggtgcgtgtt gacgtaggtg aagggtgaacc tatcgattct gctatagcaa ggtttcggag 300
agaagttagc aaaagtggtc acttgtttga gctgaaaaga cgacaagagt ttgaacctaa 360
tagtgtgaag cgacaa 376

<210> 2817
<211> 401

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E2-B7
 <400> 2817
 agcccacgcg tccggtgtta gtccatgtgg tggtagaggt agttggatgg tttatgttgg 60
 atcctttcca ttgtgcactt ctccaaagtt tctgtggttt cgcgactttt gtaagtataa 120
 aaggactaga aaaagtcccc atggtgggttc cttttggtgc gggtcgaagg aacctctttc 180
 cgatggcgcc aagatcacga gtaggagaaa cagcagctca ttcaggtgga agcctagtgt 240
 acgggttcgt tttgctaaga aatggcttcc ttcgaaggaa attttgggac agtggagaga 300
 ctcgagcac gtgacacctg cggcagggcg gtcttcactt cttgggaata gaagattggc 360
 tgttctagaa tatacacaag atatattgaa accacttcag a 401

<210> 2818
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E2-B8
 <400> 2818
 agcggacgcg tgggcggacg cgtgggtttt cccaacagaa aatgtacaca aacagtgata 60
 atctagaaga atacaatcaa cttgagaaaa aggttcaagt aatcacaact tgcattctta 120
 tctcatatca tctttctatc atggaccaag tcgatgcatt cgggtgcattg ttgttgtgtt 180
 gcttcttaga aaaacttggt gagagtgcta tgaactgttt gccagggagg gaggacggcg 240
 ggggtgcaat gccatttat tggttgaga tccaagcgtc gtgttctgcc aacgtacaaa 300
 ggataagcgt ccatagcaac tatatatggc acttcagct acaatgtatg caatgtagtg 360
 aaaaaacggg gtggattgca gtcgatcctt tgcaggaaac gacaagagt 409

<210> 2819
 <211> 391
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E2-C2
 <400> 2819

acgcacgcgt ccgcccacgc gtcgcccac gcgtccgcga tgcggagtgg gacatgattt 60
acgacaagtt cgaaaaaatc gtcgctacag gtgccaaagt tgtacttagt aagttggcca 120
tcggagattt agctacgcag tattttgccg atcgagacat attttgtgct ggtaggtttc 180
cagaagaaga catgaaacgt gtcatgaaag ccaccggtgc aagcatgcag tcgacagtga 240
aggggcgaag tgaggagtgt tctcggtact tgcgcattgt ttgaagagaa gcaagttggt 300
aatgaacgtt acaacttttt cactggttgt ccatatgcta gaacagcgac atttagtatt 360
cgaggtggtt cggagcagtt tatggatgaa a 391

<210> 2820
<211> 227
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-054-Q1-E2-C9
<400> 2820

gaaaaagccc agaagccaag ataaggtatc aaagtaaaga aagaaggaaa aggagaagaa 60
gagaggggtan gcttagaagc agcaaaccag agaggaaaac gttaaagcat gaaagaaaag 120
aatccgaaa aagaagagaa aaaggtaaga aagaggaccg aatcanggta agagggtanag 180
gagcaagaag agaagagaga atgctgggtg gagtagcgaa acaagag 227

<210> 2821
<211> 196
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-054-Q1-E2-D12
<400> 2821

gcgtcagcca ctacatgagg attaggaatc taactgaata aggaaaacaa gcttaagcta 60
gtttagctgg ggaagtaaag cctaagaaag agtaaattat gcaagcaaac gcgggagaga 120
agtatactag cagaagcatt cttggggaag tagatagaga tttcagacac ggaataaaag 180
tctgctatcg agaaca 196

<210> 2822

<211> 377
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-054-Q1-E2-D2

<400> 2822

cggacgcgtg ggttttgcac aaaatattcg acgtcgccat tgagcagccg tgagnggacg 60
 tgtaatacga ggccagagaa agggagccgg tagtgtagtt cgtgggcatg tcgtcaaaag 120
 aaaaggagca gccaaagtga gagcggttga ttatgccgaa agacacggat atgggagagg 180
 agtcgtcagg gaaatcatat acgacgcagg aagaggagct cctttggcgc gagtggaggg 240
 tgagggatgg gtagagagat aagagaagag tagagacttt tatggcacca gaaggtttat 300
 atacgggaca attcgtgtat tgtggaaaga aagcccaact agcaatcggc aacgtccttc 360
 cacttggttc cttacct 377

<210> 2823
 <211> 396
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-D5

<400> 2823

agcccacgcg tccgcccacg cgtccgggtg tccactcgtc gacgaagagc tataagggtt 60
 caagtggatg acgagaattt acgtgcaact agcagactta gtgtcgggtg acaagcaatt 120
 tttttgcaac ctgggtgattg cctagccgat gtggatgtca tgtgcatcgt catggctcca 180
 aaagggatcc tcggagttgt atttcttggc agttggcaga gatggaacag gagagagagt 240
 aggaggatta gatattccgg aacgaaaacg atatcaagta ggagtttatg tgatgaagtt 300
 tgatcggaag aaggaaccga aagaagagct tcgatttttc cgtgcgtgtc gaagcgatga 360
 agttgtgttg tgcaccaaca caggaagaat tgtacg 396

<210> 2824
 <211> 369
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-D7

<400> 2824

aggttggaat tgaaaggagg gtcgacgagc tcagcttgaa gaagcgagaa cttgcgtggg 60
gttggacgtt atttatgaac ttggactcta aggacagatg aattaatgcg ccttttgacc 120
cgtgtgcaga cgcctcacct ggatatgacg caacagtatc ggaaaatata atgcagattc 180
gcttgcaaga tagaaatcga cgcaaataca tgacgacgag tcatgggcgt gacaggcgag 240
tggggtttga ataaaattac aaaggccttc aaagaggagt tttgttgcaa tcgttgtgtc 300
gtatacgacg cacaactggg aagagtcac ccatctgcaac gagaccacag ggattaagtc 360
aatcagttt 369

<210> 2825

<211> 410

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-D8

<400> 2825

agcaaaagtg cgagcaagta agactcgata ttactagaag tgaagcgtac gttgcagttc 60
acgttgacca agctccaaga tctgaaagca gccgcattca acagagatac gacgcacaga 120
gagaagcgga agcaagtga cggagttgac gaagaaatgg aagctcaaga atggctccac 180
tggatagaga caaaggcaga ttcgtcaaca ctgcacatcat tgaggagcgg ggtggaggcg 240
agaggggaag accagcaatg gacttttctg tcttcccttt tagagaaagc ctattccacc 300
gtcaacagcg aagatttatc agccgaatcc tgctcagtgc aacagcttat tcaaaagaaa 360
gacgaagaaa tagctttttt gcggcaacga ctagccgaag ttgagcaagc 410

<210> 2826

<211> 169

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-E10

<400> 2826

cagtttgtat agtttggcca ctgcacctc acatgcatga atagcgcgta caacacacac 60
gattctgggt ccagcttttg aaagcactcg ctttgttccg tgaacacatg tcgttgattc 120

acaccggcaa cacaacttaa ggaacttga ctccacattt gaaagtccc

169

<210> 2827
<211> 365
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-E2

<400> 2827

cccacgcgtc cgagaggtgt atgatgcagg cgaagaagtg acgcagtagg tcagggacga 60
agacatgcag gtaggtaaag cgaacgggtg agtaaagagg tgtgagggag tggaagaaca 120
tgagagcaca gaagaatgta agaaaggggt agagtaaaaa ccataaagga agtgggagcg 180
ggaatctgag aggaggaaaag ccacagtga actgacaaaa ggtccaaacg agagaagtcg 240
ggggtgggag acgacggggg caatgtacag ggaagtatga ccagtgatg aggactggag 300
taaacagaaa aggaagtaaa aggaggaat gaagggaagt tatggcaaaa acacgtgcc 360
gcagc 365

<210> 2828
<211> 350
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-E5

<400> 2828

ccccccccc cccccccacc cccccccccc ccaccccccc cccaccacc cccccccccc 60
ccccccccc cccccccacc cccccccccc cccccccccc cccccccccc cccccccccc 120
caccgccc cccccccacc ccccccgcaa cccaccccc ccaccccccc cccccccccc 180
ccccccccc cccccccccc ccccaacccc cccccccccc cctccccccc cccccacccc 240
ccacccccca cccccccccc ccccccgcc cccccccccc cccccccccc cccccacccc 300
ccccaccccc cccccccccc cccccccccc cccacacccc caccaccccc 350

<210> 2829
<211> 251
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-F2

<400> 2829

ttccttcagc tgagctgaga cagagacgtg tacatagtga cttgcggaaa tccatccaac 60
tgcgcggaac gttatcccga agaacactgg atatacgtcg gtttattgga ttgttttagag 120
cacgttagtg gggggcgtgg cgggcgggat ccagagtgcg cggactaaac tttgcctctg 180
atgaacgctg gttccaaata tgaatatctt tggcaagaca acgaccaaca taagaaatca 240
accacagttt c 251

<210> 2830

<211> 395

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-F6

<400> 2830

cccacgcgtc cgagagggga ttggtgggtc acgaacgaga ggatgttggt cttttcgttt 60
ttcaaaacgt ttatcggcaa aagagttaca gtagaactca aaaacgatgt aattattcga 120
gggaaagtac attcagtgga tcaatatcta aatatcaagt tggaagatat agaaatactc 180
aatatagaaa gttgccca gttgatgact ttgaaaaatt cgtggagggg tgggggtggg 240
aggaggtata ttcaagtata cgctatcgac gtcgactgcg agatgctaca ggaagcagcc 300
agaagagaat acaaggagtt gaagaaagta gccaaatagg gcgcaagaca cacgttacca 360
ttgtctatct atccacggcg tgatgaacca actgc 395

<210> 2831

<211> 401

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-G1

<400> 2831

ctcagtcaga actgcttctc agttagttac gcaatatgcc tagtcataag gaacaaaata 60
gaggaattaa aatatcagct gacggttacg cactaaagtt gagcgggtatt cggttgagcg 120
tagacggcag tttggtcact atggtggacg cagacgacct cagagccctc atgtgtaagg 180

aaagcctcaa ggaaaagtca aagctgcatg acccaaaatt tttcaaaagc tagtatgagg 240
aggagaagga gtacgtggta ttatatgact catacggaga agaaaatggt tctttctctg 300
gaagttgcac gagaatacgc tactctggtg ggaaactcgt ttctgcagaa atatttggac 360
aaagtcattg agcacgaaca cgcatactaa gggaaccaac g 401

<210> 2832
<211> 387
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-054-Q1-E2-G5
<400> 2832

caaatggcgt cctttcgacg caggatagcc tcgctgtctt tgtgacatgt agaggacaag 60
tcattccacg tttttccaaa gtatttagac gcgttgggaa aacttttgtc cagagcaagg 120
ccgtcgaccg tgtgacggat gtgttggata tgtcgtagg gcaagggcct tgtggttggc 180
gttatatgac gaatttgatg gataaagaca agtcgagggg ggggtggagg agcgggaggg 240
ttacgttgta gttggattcg tgaaagagac gggttgtttt tgggtgctttg ttggttaagt 300
ttgttgcttt ggaaaaatga aaatcgatca gagtggatga gcatagagga tgtgatggaa 360
caacattgga acatgtatgg ggaaaga 387

<210> 2833
<211> 385
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-054-Q1-E2-G8
<400> 2833

gagcccacgc gtccgaattt tttttggttc cgtttcgcat gtcttgagca gcagttcgtt 60
cgcaggcaga aaaccaagac actcgacgtg ccaaggcact aaaggagtat caaagagtag 120
tctcccagca tagagatatt gaaaatagag tgccaaggct tcggcgagga agtgaaaact 180
ctcaagcaac aatttgagaa gacggaagat gacttgaaag cttggcagag tgggcgcgcg 240
ggtagtgggg aagttcttcg agctattgat ccggagaaat ttagtgtgaa ggcttcaagt 300
ggccacggtt atgtcgtcgg atgtagaaac aagatcgata gagataagct cgtacagggg 360

gcacgtgtct ctttgatat gacta

385

<210> 2834
<211> 384
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-054-Q1-E2-H1

<400> 2834

agaaaatatg atacgacgaa aatgccaaagg aganaaaagt gcaacagaaa gaaaacgttg 60
agattgcaaa agtttctttt cggatattac agtctctaca ttttactcag cgagactcta 120
caagggttgac ctaaaaaaat attatattcg agtttcccaa gcataggtat actaggcgtc 180
aatgactacg tattcaaagtg cttcttccaa atttctgtaa ataactagga ggcgtttgct 240
gcaggggatg ggacgaggtg actttgaata acgtttttca acgttggatt atttgccaca 300
acttcggtaa cgttattgat gagcaccttg atagaaagat gagataatac aaagcgcttt 360
ttcaataaaa acataacttg tctg 384

<210> 2835
<211> 331
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-H10

<400> 2835

gaattaaagg gtcgacgcac gcgtcagcgg acacgtgggc ggacgcgtgg gcggacgcgt 60
gggttcctag tggtatgttt acagaggaga ttgatcgata tactggtttc gagcaaggag 120
ctatcaattt aacttgagtg tatgatgcct ttgttactgc ggtttgggtca agagaagatg 180
ttcacaagtt gttttctaaa tattgtgaac ctcttctcc acctctacct agtatgccag 240
gacctggtgg tttatcttct ccataataag aggcacttgt gcactttgga tatttttgtg 300
gttcacataa agacaagctt tattaagaag c 331

<210> 2836
<211> 223
<212> DNA

<213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E2-H11
 <400> 2836
 cgtcagaaaa aaaataagca gaacacataa gcagacacaa taagttccta ataataagtt 60
 tacaaaaaga aattgatcaa aataaatgag tttcaaaca agaaaaaggg ggtctacctt 120
 aaagtttcta agcttttggt acctcgagtt tggccaatat aactctgttg aggtgtcccc 180
 aactttcaat tctggggccc cttttttaa tcttcctact ggg 223

<210> 2837
 <211> 411
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E2-H12
 <400> 2837
 gcgtcaggca ttaacaatca tgggagacac taagcttaag gacggtgcta gtgctgctct 60
 ttggacttgc cgcctatttc tctatacagt tgtgtagca ttttcagcaa caataattgg 120
 acgtgatgga aagaaggcag ataacatatg gaacgatgcc ctagattatc atggaaaagt 180
 ggtgaacttt tgtgcatatt cggtctogtc tgtttttgaa agtggcgacc atggcgcatg 240
 taaatatgtg atggctttgg cttctatcag cttgatttta gtcttctatc gttgggtggc 300
 ctccattgtc gacgcattgt atccaattct taaaagtgc tggtttggtg agcttggtat 360
 caacatatcc cttactatgt ggtggatggt tggtgcaatt gtggtgactg c 411

<210> 2838
 <211> 405
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E2-H2
 <400> 2838
 gggtcgacct aagggtccgt gcgaaagagg acgtaggacg gcattgtgga agagcgtttt 60
 gggtcctgga gagctcatgt ggagaacaac gattgtatcc ttgttaagaa gaaaacctag 120
 tcaggggtta ttgaagagaa gttttgccga tcaagttgct caaggctcag aaaaactaaa 180

acttgggttt gcgagcacct acacatgccc ttcgaaagga tgctctcgtg gatatggtag 240
 tgttcccagc aggtagtggg aggggtgggg tagttcggtc aacatgtgcc tacagttgct 300
 caactgaaac ctgggtgtgt gactgtcgtg gaagatggca aggaggacaa atattttgtg 360
 agtagtggat ttgcctttgt taccaaagaa cgaacagata ttttg 405

<210> 2839
 <211> 399
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E2-H3
 <400> 2839

agacttggtg aaataaagca aggagatcca ctcaatttgg agactatggt gggagctcaa 60
 gtatctactg aacagatgga taagattctt cactatgtgc aattgggaaa gaaggaaggt 120
 gctcagtgtg ttgttggacg aagtggaaag aaagctattg gaggtgattt agaaggtggc 180
 tattacattg aaccgacgat attcaaggga gataacaaga tgagaatatt ccaagaagag 240
 atatgtgggc gagttctgag tgtcacgact ttccgtacag aagaagaagc catccaaatt 300
 gccaacgata cttcgtatgg tttaggtgct ggtctgtgga ctcgagatat tatgaaagct 360
 tatcgcgat ctcgagcaat caaggctggt cgtgtttgg 399

<210> 2840
 <211> 283
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-054-Q1-E2-H4
 <400> 2840

cgcacgcgtc cgccacacg tccgccttcc tacaatcaat attcttcttc gtacggttcc 60
 tctagctatc gtctcttaac tgcagacgaa aaccaacttg tgagcagagg aggttatgca 120
 ccaacaaacc aatgtattct agttcctatc caatgctgca ctgattgcaa acaatggtac 180
 gccgcatgga gttcctaaat actgatacag tgctcggata gaaagaaaca gatatcaacg 240
 gatgtttgtt tctgttgacg tgaataaaac ttgtgttcat aac 283

<210> 2841

<211> 382
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-054-Q1-E2-H5

 <400> 2841

```

agccccacgcg tccgcccacg cgtccgatcg ctataggaaa gtgagcaata cagtcttcaa 60
ggcaacagct ttaacgttgt cgactgctgc agtaattgga aacctataca tattcgcaaa 120
cttgctcagc atagtttcct acagaagttc aaagaaggag ctgacggaag ccagtagtac 180
tcaggaaaac tgagaaacac aagttgtctt cacgtctgga ggatggaaag atgagcggaa 240
actaggctgg gggctctgttc cttgtagaag ctctgggtgtt ttgagaactt gcaattgttt 300
tgttctttgt agtaaagaaa ttgtcttcgt ttttctaaaa aaaaaaaaaa aaaaaaagaa 360
aaaccgacaa acgagacgcg ac 382
  
```

<210> 2842
 <211> 404
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-054-Q1-E2-H8

 <400> 2842

```

agcggacgcg tgggggaaag gtgaggcggg aggttggttaa gagagtactc atttgcttg 60
gcctgaagga ggatgagcac tatctcggtt tctctcaaga aaccgagata tgattccttt 120
ctaggggttg ttcccataca aggtattggt ttgtcaccaa ggaagctatt caatacgtgt 180
tgtgctcgac cgaggagagc ttggacctct ccaaccacca tagagtgtat cggagacagc 240
gtcgaggagt gggttcgttg taaagtattt cgttgtggag aagaacatat atttctaggc 300
cctatcaaca gcttaactgg ttccaaggca ctgcctatcg agatanaaag ccaactggat 360
gccgacttgt tgcgttctgc actcggattc tatcgcaagc aaag 404
  
```

<210> 2843
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-055-Q1-E1-A10

<400> 2843

cacgcgtcag gtaggtgtgc tcagtcagaa ctgcttctca gttagttacg caatatgcct 60

agtcataagg aacaaaataa aggaattaaa atatcagctg acggttacgc actaaagttg 120

agcgggtattc gggttgacgt agacggcagt ttggtcacta tgggtggacgc agacgacctc 180

agagccctca tgtttaagga aagcctcaag gaaaagtcaa agctgcatga cccaaaattt 240

ttcaaaagct attatgagga gaataaggac tacttttatt atatgactca tacggagaaa 300

aaaatgtttc cttctctgga agttgcacga aaatacgcta ctctgggtggg aaactcgttt 360

ctgcagaaat atttggacaa agtcattgag cacgaacacg catactaagg gaaccaacg 419

<210> 2844

<211> 412

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-A12

<400> 2844

agccccacgcg tccgcccacg cgtccgattt cattccgtgt ttttgggtacc atttgttgaa 60

gagattcaag taaggaattt gggatttcgt tttatgacac tttgggtatg tggtcgggtca 120

tcagaactta gcaactggct tctcgatggt tcactttacg aattttgctg gccttcgata 180

ataatcatct ctctaggatt tggttgttgc cataccagat atgagtttga atgggttagct 240

ggattttctt atggactcat gggttcagggtg gtcgctataa aggataaaaa tgtcataaat 300

gcaatccagt ccactgtatc acaaaccttt gtttaaattg ttacattttg atgtctggta 360

acttttattt gtggtagttt gactttgcaa ataggttttc actatttggt tg 412

<210> 2845

<211> 434

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-A2

<400> 2845

agccccacgcg tccggacaaa aatagataga cagaacaaga ctggtgatgt cagagatttg 60

gagaaaaata cgagctacca ggagaaatat gattatcttc tcctttcacc aggtgctgaa 120

cctattcgtc cgaagctgga aggaatcgat ctagatggcg tttactccgt aagagacata 180
cctgatgctt cgcatattaa agaatggatt gccaaaaata atgctaaaag tgcagttggt 240
gttggaggtg gctttattgg tttagaaatg gctgaaaact tatctctttt aaatttaaag 300
gtccatgtag tagaagctct ttctcatttg atgcctgcaa tggatcccga aatggtgcct 360
ccactataca gaaagatgga agagcatggt gtggacataa tttttcatga tggattgaaa 420
agtatagtga agga 434

<210> 2846
<211> 426
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-055-Q1-E1-A8
<400> 2846

agccccacgcg tccgccccacg cgtccgaaac acaagacaac aatgtctcgt cccaagtgtt 60
tctttgatat tgctatcggg ggacaacctg caggaaggat tgtattcgag ttgttctccg 120
atgtcgttcc taaaaccgcg gaaaatttcc gtgccctgtg taccgggtgag aaaggggttg 180
ggtacaaaga ctccaagttt cataggatca ttccccagtt catgtgccaa ggtggagact 240
ttacacgcgg cgatggaacc ggtggcaaga gtatttacgg caccaagttt gaggatgaaa 300
acttcaagtt gaagcattcg gagccctttt tattgtccat ggccaatgcc ggaacgaata 360
ccaaccgaag tcagtttttc attacggtag tgaagacacc ttggttggat gggaagcatg 420
tggtgt 426

<210> 2847
<211> 331
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-055-Q1-E1-A9
<400> 2847

acaacatcac attgaaacac ttcgaggaca cgaacaagaa gtttgtgggt tgaaatggaa 60
cgtcgatgga actcagttgg cttctggagg aaacgataat ttgttgatgg tttgggataa 120
tcttcactcc agtcaaccaa aatatcgttt agatcagcat cttgcagctg taaaagccat 180

tgcttgggtgt ccttggcaat ctcatctact tgcaagtggg ggaggaacag cagatagaac 240
 gatcaagttt tggaatacta caactggctc ctgtttacag tccatcgata caaaaagtca 300
 agtatgtgcc ttgctctgga atagacatga t 331

<210> 2848
 <211> 418
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-055-Q1-E1-B1
 <400> 2848

agcccaagcg tccgccacg cgtccggtca agtgggtacag tcggaacaag acctgaaaag 60
 ctgtttggaa cttagaaagc taatattcgt tcaagaacaa ggagttaggg aagatagaga 120
 gcaagatgaa tacgatcgag tggattcaac cgttgaaagt ttgggtccca gatggaaagt 180
 taaacacttc ataacctggt taggtaacca agtgggtgca actggtagag ctcgtcgtaa 240
 ttcgatgttt ggaataaagt tagaaagaat tgctgttcga aaagaagaac gtataaagca 300
 cattggcgaa aactgcttc aatttatgtt gagagaaata cagaagaaaa atgctggctat 360
 taatttgcac tcgcagaacc ctgtgggttac gttttatgag agtttgggct tttcaact 418

<210> 2849
 <211> 115
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-055-Q1-E1-B3
 <400> 2849

caggtatcac cctaagctac ttgatcttat gctgtccaag cgaagtaatg ctgaaccaat 60
 atctgtggca aattatttgc aagatatcgc ataaagcttg agatgccact caatc 115

<210> 2850
 <211> 423
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-055-Q1-E1-C10

<400> 2850
ccacgcgtca gtcaggaagc gatgaaagtg gaaaatttat gtcaagggtta tatccgctgg 60
tgtgcctttt ggtaacgctt ggtggtacac caaaaccaga gtatgtcaag tagtgggaaa 120
aaaagtattc tcctaccgaa ccatctcaat gtggagaaac caccctgttg tccatcgttg 180
aaaacgatat gtctccactg gattgctcga aatactgcac gcgtaggtga actgggggat 240
gtaccggatg agttgatgta caaagttggt tgtttatgtg gagcaaaaga cttggcaaga 300
ctggaagaca acaaccctgg aagagaagca gtgtntgaag cactgtgggc agcgttgttg 360
aagcgagatt ttagtangga agaagggaat gaaagcccat cacaacacca ccatgtggca 420
agt 423

<210> 2851
<211> 141
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-055-Q1-E1-C3

<400> 2851
catcatgcat ttagagttt gcatgtgcta tatcagtaac aatcgactat agatacttaa 60
agtcactctgc acacgtggtt atcggatgcc atggaaggcg cagagtccac tgacgtgcat 120
ttgattcatg gatcgacgtt a 141

<210> 2852
<211> 287
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-055-Q1-E1-C5

<400> 2852
cggggcgacc caagcgtcag aacacgcgtc cgcccaagcg tccgccaag cgcccgata 60
atthttgtaaa taaagtcgta atthttccttt caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg aggaagatca 180
aaaggaataa aagattaggt aagaaagtaa gaaaaagtga aggtcttcaa agaggttact 240
gaaaggaaat taacgggcgg tagttaaaaa aagtcgggag ggggaaa 287

<210> 2853
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-055-Q1-E1-D11

 <400> 2853

 acgcgtcagc ataagcaa at cattaaccgg aggaaaagaa acaaactgga attcccctat 60
 tatcggcgag cgaagcggga agagccacta tgagaatcct ccttttcctt tgtgaaaaga 120
 ggagatgtat ttgaaaaaag acaagaaata tctgcagcaa gaaaagagca aatttccttg 180
 aatggaatat catggagggt gagaatcncg tttatctctt ttctttgtat tcaagctgcg 240
 ttacgatatt ttttgttgtg gagtcgggtt gtttggtagt acagccttaa ttttgtgggt 300
 gttataaatc atccaaggct aaatacgtaa agagagaccg atagcgaaca agaacatgag 360
 gaagaaagag gcaaatacgg gaaagcagta aaagaagaaa gagaaaggaa aaaactgag 419

<210> 2854
 <211> 345
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-055-Q1-E1-D8

 <400> 2854

 acccacgcgt ccacctacgt ctctgcagtt gaggtaaagt gcgttgtatt tggcaatgtt 60
 tcaacgggta ctgacgtact tgagtgcaa tattctcaca agacattgtt caaagagtgc 120
 ggaagtgaca tttaaagttt tacacgatca ctttaacttt tctttgagca tgaatgggag 180
 aaataacgtg tatgctgaat ctgtttgtgt gtgaatttga agaatacat ttcgcttctg 240
 ctgatgta ataatcttaca tgggttaagt ttggtatgta tcatgtacag aaatcttctg 300
 atcaacttac gtcatttctc gtacgatctt ggtataggga tacca 345

<210> 2855
 <211> 178
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-055-Q1-E1-E1

<400> 2855

acgcgtcagg gaaagaagaa ggtaaaggaa gagaaggaag aagcagagag ggactatgag 60
cgaaaatgtg gatagtcgag agggaaaaag cccagaagcc aagataaagt atcaaagtta 120
agaaagaagg aaaaggagaa gaagagaggg taagcttaaa agcaacaaac cagagaag 178

<210> 2856

<211> 405

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-E11

<400> 2856

aggacgggtt gtttgtagt acagccttaa ttttgtgggt gttataaatc atccaaggct 60
aaatacgtaa accgagaacc ttacctctcc aagaatgtgt tgcacggctg tcgaaagaac 120
gtgctgtgaa gtgagagaac gtacgagaaa gccaaagttag gaaaagaagg caagtagagg 180
gcgccccgag aaaggagagg gcgtaagacg tgatacagag taagaagaaa agagaagaga 240
accagaaaag aagttaaaaa aagattaaaa gactaaaaga agtacggaat tcacgaagaa 300
cgagcctgaa tgaaggagga atcccaagta atcgaagaag aaaaagcttc ggtgaaagcg 360
tgaacggatt ttgtacacac tgcccgtcaa gttctggaag tgtgc 405

<210> 2857

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-E6

<400> 2857

agcccacgcg tccgcccacg cgtccgctca gtacttgtct gaattctgca gaaggaaatg 60
ttacggttga cttgtcgcgg cagtgtagct tgaaggatat attttcattg aagcttctcg 120
acaataactt taagttggcg tgttttaaatg atgccttggt tttagtttta ccaggcttat 180
cctttgttat tactggtaat cgtatattct gtagacgctc ggacttgaat gaaacggaag 240
cattggagtc ctgcttttctg tttatgaaga tatgccccac gtacaagtcg ttggagattc 300
ttttggaagg cgagcaaatt tatgtagaag aactcgtgcc tattgtattt cgtttcgttg 360

aagaacttcc tcactttctt ttgacaatt ggaaaaccgt aagttacggc tctccctcga 420
agaagg 426

<210> 2858
<211> 155
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-E8

<400> 2858

cgtcagaaaa ttcattcatc gttgctcact cttgttgcac atatgacatg tcgtcgtaga 60
cgtggtaaac gtttatgata acgacgtgca taccgtcatc ccatagtctt gggagacagt 120
atccacggaa taatcaaadc agctatccgt cggtt 155

<210> 2859
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-F12

<400> 2859

cgcgtcagca gacgtacaaa agttttggca caaaaactgc aaaaccacaa acgctcgcta 60
cttgatttaa catgccttcg acgaatgcc aagaacaaagt tcccgatagc cggtcgggta 120
tgaggagacc caaccaacct ctaggtattg tagatactgc caagtcggaa gagttttccc 180
aaggctcctt ttctttattg gtggattgtg tgaaagatgg tactccagtg ttgatcaatg 240
tgaggaataa caaaaagttg ctaggaaaag taaaggcttt tgaccgtcac tttaatatga 300
ttctagaaaa tgtcaaagag atatggacag agataccaaa gagtaaaaag gctagaccag 360
tcaacaagga tagatttatt ccgaaaatgt ttttacgtgg tgactcggta g 411

<210> 2860
<211> 347
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-F5

<400> 2860

agagtcgatt ctcaaggaaa gatacaaaca tatgttgcca acagagaatt actgctggat 60
atgtgcatcc actcaaaacc tggggtagat gtaaaccaaa agaaacaacg gttattgtca 120
ttcttagcta gtcaggagcc ttgttatctg tgggaagaag aagatcgtca tcaagaacca 180
caaatagata gtttatatat ctctagtgtc gggtagaagg cgatcatttt aagggacaag 240
atgttggttg ttcacaattg gtcccttgat ggagaacaac ggtgggggtga tggatgagaa 300
taatagtttt gcatatttca tgtcttccag tttttatatt atgtttg 347

<210> 2861
<211> 274
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-F7

<400> 2861

aacagtagct tagacagtaa catatgcttc taggttcagc gaacgggtga gtaaagaagt 60
gtgaaagagt ggcagaccat gaacgcacag accaatgtta gaaatggta gagtaaaaac 120
caatcatgga tttatagcgg gaatccgata cgaaggaagc cgtaatggaa ctgaaaagtt 180
gtccaaacaa ggaattcag cagtggggat atttggccaa tgtacagggg agtatgaccc 240
agtgttgaag agtggagtaa gcagaaaggg aagt 274

<210> 2862
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-F8

<400> 2862

aggggatgtc gtcgcaaccc gtcttagtgc ttgcgactt caaaatgat attatgggtt 60
tcgttcccc tgagaagaag gaagccgtca ttaaaggagc ttcgaaactt ttgaactttg 120
cccgtgagaa gaagatccct gtagttcatg tgggggtacg ttttagaccg ggacaccctg 180
aagtttcgaa acgaaacaag atgctttctc ttgtttcctc cagaggcccc atccttgttg 240
aaggtagtcc tggaagtgc cacgtagcag agttgaaacc aattgaaggt gaattcagt 300
ttacaaaaag aagagttggg gcacattata ataccgatct tacaaccatt cttagccgct 360

tggggcgcta cccacctgat tttgggaggt gtttctacaa gcgaggttat tctgtcgacc 420
gttcgttg 428

<210> 2863
<211> 439
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-G1

<400> 2863

acgcgtccgc ccaagcgtcc ggtgcaacga tggagaaagt ggcgaaggaa aaccgcttga 60
agaggtgcaa acagggaaac tttttgcgtt attatctgaa gaactttgta aagtatgtat 120
actggaaaaa gttaccgtga agagtttagg ccaacaagaa ttggcaactt tttgtttcgt 180
caactccgcc ttggtctgca aaatagacct tgaaagtcac tctagagcga tggttcgcgg 240
tattttcaga ctcttggttg ggaaatattt ctgtaacaag tttgggaaaa ggaaaacaag 300
tatttacttg gttgtattct ctgagaatgg attttttgcg gggaaacgac ttgtcgggag 360
accaagttcc aatggtccac ggatcactgt gcaacaaata ttgattgcta tacgttcccc 420
atttgctggg ttgttagat 439

<210> 2864
<211> 404
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-G11

<400> 2864

ccacgcgtca gtagatgaga cgcttgaacg aaaactacgg agatagacat accaacaaaa 60
catcggcgac ttgttcggtc gttccaagaa attgtgccgc tgtggttttc aagctatttc 120
gaaaactttg gggcatcttt tcaaaagcct ttgtccaatc gcccgataac attcgttcca 180
tagctatctg ttccagttgg tcaatccaac gaccagcga catggcacgg tgctgataaa 240
agtacgttgg actcaaataa ataaccacca acaaaaaaaaa aaaagaacta aaaagaaaaac 300
aatcaaaaaa aattcggagg aaaaaccaca agatcaaaac aaaaaatata gatgattaag 360
acatcaaaca aacttctata attctaaaaa aaaagggggg gccc 404

<210> 2865
 <211> 458
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-055-Q1-E1-G4

 <400> 2865

cggtcaggaa tatcgggccg agccacgcgt caacccaagc gtccgaaccc gtgtagtcta 60
 tgcagtaaaa gaaagaatga gtaagaaaaa agggagtcac tccaccaggg gagtaaaggc 120
 gcaagaaaga aacccaaagc aattgacggg aatcggaata aggggtggat cacgtaaatt 180
 aatccgatat aaaccgagaa ccttacctct ccaagaaggt gttgcacggc tgtcgaaaga 240
 acgtgctgtg aagttagaga acgtacgaga aagccaagtg aggaaaagaa ggcaagtaga 300
 gggcgggccc agaaaggaga gggcgtaata cgtgatacag agtaggaaga aaaactttta 360
 gcaaatacac gaacaatgcc aaaaaagaaa aacctctcgt cgtaaagaaa agtgtacaga 420
 atcttctatg gataaacgga ccaaggaaat atacttgg 458

<210> 2866
 <211> 422
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-055-Q1-E1-G5

 <400> 2866

agccacgcgt tccgtgtgtg gtgacttggg tgaaaactta tctctttgtt ccgtcttgtt 60
 cttgtctttc tacaaaactt gcaagtggaa aacaagtagc agttgattca agttggaaaa 120
 gatgtggaca gttcaaggga aatcgttcct tctccatgc tgctcctggc actcttaaca 180
 aagcaaggtc caggttttct gtttccatga aaaccgaagc ttgggtaaag ttgataaaaa 240
 ctgagcaact aaagccggga gacttgaaac cttttttcgt tgctggccag tctttgctag 300
 tagtatgtga ctatgacggt caagtatact gttctgcaa cgtttgcca caatttgga 360
 caacaattgg atcaaggaa ggtatctagt ggtaacttga tatgtgcca gcataagact 420
 tc 422

<210> 2867
 <211> 376
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-055-Q1-E1-G9

 <400> 2867

 ccacgcgtca ggaaattgga tttggttttg tgacaagtat aaagcaaaca gtgcacctgt 60
 attattatcg tttttgttgt tgttgtaaca gcctgtgtct ctctaaagag tttcttgaaa 120
 tgcagagagt tggattggtt ggtgattcgg tcaccaagct tcacttggtta aggcgagtt 180
 tctcgcaata tgcaagacct tggaataatc ctgaaggaat atatgccttt gttcgacgtt 240
 gaaaagattg gggctcccta cccggtagag aatggactaa tgatgagcta agattaaaat 300
 cctttgacga cttgcacaag ctttgggtggg tccttataaa ggaaagaaac gctttgttaa 360
 ctgaaagaga ctggtg 376

<210> 2868
 <211> 97
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-055-Q1-E1-H1

 <400> 2868

 acgcgtcagg agggaataat gtcaaaataa aacagaatga tatgaccccg gaaagttttt 60
 ctgaaaaaaaa aaaaatccaa caaaaattcc atgcaaa 97

<210> 2869
 <211> 426
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-055-Q1-E1-H10

 <400> 2869

 acgcgtcagt gatgggtgga gtagcgaaac aagagaaggg aagtaaaagg taagaaagag 60
 gaaaggttta cgagagaagg aagtagaaag aagagagtgt aaggcggcgt cataatagaa 120
 atccgaaagg agtagaagaa aagagagaga agaaagaaaa gaagagaaaa gccgtactga 180
 agaccgacac aggtactcga ggagaaagga gacccaaatt aaggtgagag aatggacgat 240

aaggaactag gcaaaaggat atggtatctg cggtagaaca tatgaaagaa catgaggaag 300
aaagacgcaa atacgggaaa gcagtaaaag aagaaagaga aacgaaaaaa ctgagtatca 360
ggaagaaaag agggagtaga tgaggacaga aagatcaagg aagtaagagt aagagaagga 420
gtaatg 426

<210> 2870
<211> 228
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-055-Q1-E1-H3
<400> 2870

agcggacgcg tgggttttta tggaaagata taccgagtca tttattgaag aacttgacca 60
attttgtgat tgtattctgc atgacaaacc tgttccagtg acaggttggg atggaagagc 120
tccagtcggtt attgcgttgg ctgcgaagaa aagttatatg gaaggacgtc ctgttcgcat 180
agaagaagtg gattatagtt tgtcctagta aagtttgtat tattttttg 228

<210> 2871
<211> 427
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-055-Q1-E1-H5
<400> 2871

agacttggca aaagcaattg ataagagaat gtggccacat tcgcatacac ctcttcgaca 60
gttttcatct cagttacctg aagaagtact gaagcgaatt gaaagaaaga cagatttgga 120
aattgatcaa tacctagatt tatctccagc ggaattagga gagttgtttc gaagtccaaa 180
agatggcaag acgattcatc gcctattaca tttattgcct agaattggaat tggctgtcca 240
tgtacaacct attacgcgct cgactattcg catggaattg actttgactc ccgatttcct 300
tttcgattcc aaggtagatg gagcaggaga acctttttgg atctgggtcg aagatcccga 360
tggaagaaaa ctaatgcatg tagaaccttt tttctgcgag cgagtttaag tcaagaggag 420
catacag 427

<210> 2872
 <211> 354
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-056-Q1-E1-A1

 <400> 2872

 gagtgtgcgg cctgccaaat agtagagaag aaatcgatga aagtgaaagc gagtaaaaga 60
 tgaggtatag agaatggcgg tcctaactgt aaggatccaa aggtagcgaa gtaaatagac 120
 gtttgaaagg cgtccagtat gaaaggagaa acgagtgtag cactgtctag tcgtccaact 180
 cagcgaaaca gcaataactg tgaaaatgca gtaactagc agtaggacgg aaagaaccca 240
 taattcttga ctagatacgt ttacggaaga gagagaatca tgaagtagag gacgtggggt 300
 aagagatgag agaccactgc atgaggataa agaatctaac tgagtaaaga aaat 354

<210> 2873
 <211> 400
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-056-Q1-E1-A12

 <400> 2873

 agcccaagcg tccgcccacg cgtccgattt catcgattgt ggtgagtgtt gtggttccgt 60
 ggcgtcgtcg tgggggtggat tgtgtttgtt gtgtgtgtgt aaggaaaccc gatgcaaaac 120
 gtgcaaaaga aaattgtaga tctttatgtt cctagaaaat gtgctgcttc taaccgaatt 180
 atcacggcaa aggatcacgc ttctgttcag ttaactgtag cacaagtaga tgcgcaaggt 240
 cgagtgcag gagaaacaac gacgtttgct ttgagtggat ttattagaac caagggatta 300
 tcggatgcag cgggtcaacag gatatgtgaa gaaaaggac tgctcaacga ccttcattag 360
 aacaactata aaacaacaat agcgtttttc ttttggatgt 400

<210> 2874
 <211> 379
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-056-Q1-E1-A3

 <400> 2874

cccacgcgtc aggttttccg aagcattcag tctttatcgt caattgattg taactcttcc 60
 atttgtctcc gtagtggacg attcgcaatg cagtctttgt atggaaatgc tgactacttg 120
 tagagaatat atcgtcggac tgatgattcg taccaaacia acggaagcca aatccaaagg 180
 agatttcgtc cgacagttgg aattggcagc gctcatgaag cactgtaata tgtcgattac 240
 gcatcaacat ttggcattgc aagtagctat gaaattagct tattctacga agaactatcc 300
 tttatgcgct gaaatttgcc gatcgattgt tggagttggc acccaatgaa gatatggaga 360
 atactgccaa aaaagtga 379

<210> 2875
 <211> 423
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-056-Q1-E1-A4
 <400> 2875

atcgacggag cagaatattt aagaaatcat cccaacacct tcgatgtgat cataaccgat 60
 tcttccgacc cagttgggtcc agcagatgtc ttatttcaaa gaccttttta tcaaagtctc 120
 catgccgcac tcaaaccgga tggcatttgt gcctgtcaag cagaaagtat gtggctacat 180
 atggacctca tacgttcttt gatggaaact tgtcgaagta tttttgcttc cgtggcttat 240
 gcttatacta tgattccttc ttatccagga ggacagattg gtttcgctat ttgtccaaa 300
 tcggtacgtg atagcttgac gaagcctcta agagaaccaa atgcagttac aactcagtcg 360
 ctgaaatatt actgtcctga gatacatgac gcggcatttg tattgccact ccttgcaaag 420
 aga 423

<210> 2876
 <211> 355
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-056-Q1-E1-A5
 <400> 2876

accaatacta ttttttcttc aaaatttact tcgacacaaa gcctgaacga ttccaagacg 60
 gcgcagtaat cttgttctcc acggtagctc gcctcgacag aaaaagacat gttgagctgg 120

ctacaaaaaa accacttgct agttgcaata ttacaagtgt caagaatggt tactctttat 180
cgagtcacag tgcgtctttt cccctaattt ttctttttcg gtgtcgacga gtgcgtagac 240
atgtcgtctt ggtaacgcaa cctctatttg acactctacg tttcctgtgc agcgtcgaac 300
tacctaaaac gcaaagcagc aaagtcccaa agtttcgact ccttttggtt tctcc 355

<210> 2877
<211> 418
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A6

<400> 2877

agggcgctgg tatggattta ttaaaggatg aagttgatat gtccaaaaga gatgcttcgg 60
gtaagtatat ttgcccaaaa ggagaacttt cctagacgac gccacttggt tcaggtaata 120
tcaaaatgcc agatattgga ttgttcttga aagaccacat cagtgcgtgg tttaccgagc 180
aagtacgaat ggaaataact ctcaagtata ttgatcctac ttatatgatt cgaagtatac 240
ctgcaaatgc aagtgactgt ttgatgtgtg gtttattggc ccaatcagcc gtacatagtg 300
ccatggctgg tcgaggggtga gattttcttt ctttttggtt gtcacaggaa ttgtttttgg 360
taattgctga cgatatggat tctagtgggt ttacaattgg agttatcaat acccaata 418

<210> 2878
<211> 423
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A8

<400> 2878

acgatgacat ttctcaccaa aaaagatgtg gaacattggt tcgatgtgat atggtttagc 60
atatttgata tccaatattc ttgtttatgt tctttgaatg ccttgaacca gatgtgtcga 120
acctacagcg tgtctgtgcc ggctggcgat gactttgaat ttccaaactc tccttgctta 180
agtgactggg atctcgttca ttttgtttcc catagcaacg aacctgtatt tcgtgtattt 240
cacaagtgca tcatgtgctg ctttttagaa caaagaatac ttgtctttcg ggatggcctt 300
tgtatactga acaattccaa cagctgggtg ttgttggtatg ctttgctgta taccacaaa 360

tatgaaacgg acaaagaaaa cccgttcttc tagttctttg ccgtttgtca agcgttgatg 420
aat 423

<210> 2879
<211> 427
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A9

<400> 2879

agagttggtg aggagatagc aaagggttatg aaaatttttag tcagtgtaaa gcgtgttgtc 60
gactatgctg ttaaagttcg agtaaaaccg gacgggtccg gaatagatct caacaatgtg 120
aagatgtcaa tgaacccgtt ttgtgaaata gctgtagaag aagcggtagc tttaaaagag 180
tcaaaagttg catcagaagt tgttgttgct actgtgggac cttctcaatc ttctgaacaa 240
attcgtactg cgtagctat ggggtgctgac cgaggcatac atgtgcaagt ggaacaggag 300
ttgccgccat ccgtcgtttc aagagcttta aagggcattg tactaaacga gacaccaagt 360
ctagtaatat tacgaaaaca agcgatagac gaccattgta accagactgg tcaaattgtg 420
gggcaac 427

<210> 2880
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-B2

<400> 2880

accacgcgtc cggttggaag atatttatcg gatggtttaa aacaaaagaa atagccaaac 60
tcagtagtaa tgagccagga ggatgaggac aaggacaaac ttacgcttca cttactagat 120
tggttgacg catatgcagc agtacaagaa gtgatcacia aacgtttggc tgacatcatc 180
catttgctga gccgagaaaa gtttcacgct cgcggtgggg gagaaagact agatgtgctg 240
ttgttggaac agcgacctca tccagcgact tgtaagtga ccccgaacga aaagagttta 300
aacgcttcaa cagattggcc tctttccacg aaccttttac agcatttctc gtggagtgtg 360
attcacgaaa gcaaagaatc ggatttagaa gagttttgtt tatcaacgac 410

<223> Clone ID: LIB190-056-Q1-E1-B8

<400> 2883

gggaataaaa ggtcgcaatg gaacagcaca acaactgaac agtcatgttt tttatcgtgt 60
ccaatattgt tgagcacagc gttccacgag ttggttggtc aagtttctta tcccgaaggt 120
atatacaaag tcctccgaag aaacgttgtc ctgttttagc gagtattttt caaagcttct 180
tccctgcgga gagcaacact tccaaagtag tgcaactgga agcttgtaac atttctcacg 240
acgcacagca agctgttttt gtggacaaca tggctggaga agcacgaacc ttagagaatg 300
ttaacottga aatactggag ggagagtttt tggtgctcat cggtgagaat ggctccggaa 360
agagttcttt gttgaatatt ctggccggac tggacgtacc tgatcaaggg tatcccaa 420
ggtatggcaa gaagatcaag 440

<210> 2884

<211> 394

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-C1

<400> 2884

accacgcgtc cgccacgcg tccgccacg cgtccggtcg attccaagta gcgatggcga 60
aaagtgaacc gggggtgata tacataggtc acttaccgca tggtttttac gaaaaccaac 120
taaagggctt tttctctcag tttggaaccg tgctgaaagt tcgagtggca agaagcataa 180
aaacttatcg accaaagggg tatgcttttg tgatgttcgc gaaccgagaa gttgccgaaa 240
ttgctttag agctatggac gggtatttca tgtataacaa aattttggtc tgtaaaatgg 300
taccaccaga gaaagttcgc ccgaatatgt ttagaaagtt cgtgaagatt ccctggaaga 360
agctagaaaa gaaccgccgt gctttgccgc tcac 394

<210> 2885

<211> 384

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-C2

<400> 2885

tgggttggttg gttgcgcca tggagcattc gatgaacaaa gtattggaac agctgtaggt 60
 atagttttgt tgcaacatgg tgcacatatt cacttgaaaa aagggcaaag gagccaaaag 120
 taaaaggata tcttggttacg gattgggaag ggctgtgtat tgcgtgtgag tttttttgta 180
 ctggttggtta ctcacgtcac taaaggaaac tcgtagcaag ggggtgtggcc ccgtcgcagt 240
 cttcaggttg gatcacaaga ttagctgaag cttcacttat gttgagaaac gatatgaaaa 300
 gtgatgaaaa gcaaccacct ctcgttcaag tcgatttggg aaaatatgtt gtagcaataa 360
 ggcctatgga aaatgtaata atgg 384

<210> 2886
 <211> 283
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-056-Q1-E1-C3
 <400> 2886

agtgattgga aagatagcca aagaaagcta ccaactggaa gtagttggtc tgacaaggta 60
 gctcgttctg tgcctagttc tattgcacaa caacaaacga attcgggtacc tacggacaaa 120
 agaaaggagt cagaacgagt ccattcttcc attggatttt gggactacat agatcagtct 180
 ctggaaacaa aagagtcgaa gcctcccaaa aaggagccta cttcctcgac aaagcattcc 240
 gttgacaaat acgaatcgct agacaagaac aagtcctttg gag 283

<210> 2887
 <211> 411
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-056-Q1-E1-C5
 <400> 2887

agagtgcagt gaaggaagca ggtgctattg gtgacgaaat ttccaatgca aaaaatggaa 60
 cctcagtgga acatgaaagc cttcctgagg aggaacaagc aactgtggat cctgacaaga 120
 tgagtaagcg ctatagagca tcctggttta taactgctgt acttattgca gctgaaacgg 180
 cttcttctgg aatgttatct cttccctctg cggtacaaac tctaggatat gttcccggaa 240
 ctattctctt agtgtacttt ggagctgtgg ctacttatac aggttacttg attcacaagt 300

tctgtgagaa tcatagagaa gtaagacatt acgacgaagc agctggtatt gttcttggaa 360
gagttggaag agaagtcata tatgctgggc aaattatcct ccttatttgt g 411

<210> 2888
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-C8

<400> 2888

accacgcgtc cggaaaggag ggtcgacgag ctcagcttga agaacaaaga acttgcgtagg 60
ggttggacgt tatttatgaa cttggactct attgacacag gaattaatgc tccttttgac 120
ccgtttgcag acgcctcacg tggagaggac gcagcagtaa ccaaaaatat agtgcataatt 180
cgcttgcaac aaagaaacgg ccgcaagtgc ttgacgacga ttcaagggct tgacacaaaa 240
ttggatttga ataaaattac aaaggccttc aaaaaggagt tttgttgcaa cggttgtgtc 300
gtagacgacg cagaactggg aagagtcatt caactgcaag gagaccagac ggataaagtc 360
aaaaagtttc ctagttcagg agaaattagc tgaaaaagac ctgatagagg tgcacggtat 420
atgagtgt 428

<210> 2889
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-D12

<400> 2889

agcgttttgg tgacaaggaa agataaatgg tcgtcaaac agaaacctgt agtttttcag 60
gtttccgcat ctaccccgga aaaggcactc gatttgtgag cggggatggc aaactcctca 120
tctttagtaa ccgcaagtgc aaatcctact ttcatatgag taggagaccg gcagagttga 180
attggactca gttgtatcga agaattgcaca aaaaaggaca gcaagaggag acacagaagc 240
gacgtcgtag gcgcaaagtt gctgctgtac cgaaaccggt ggaaggcgag tcgttggaag 300
tgatcaaagc aaagagaacg caacgcccgg aagtccgaaa aactgccaaa gaagcagcgt 360
tgaaggaaat ttaaacaacg ccaagctgct gcggctggaa aaagaaaagg tggaagagga 420

gatgcgac

428

<210> 2890
<211> 228
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-D2

<400> 2890

gtgcttagaa atggccaaaa atctttgcac caacttttcg gtctattgac tttcaaaatt 60
tgcaaccagc gcaatgaatc gctgcggtca atgcaagctt cgaagcaaaa ccgctagagc 120
attggccagg agatcgtctt ttcgtttcgg gaaacgcttg atacagaaat cgagagaata 180
tccttgatgc caagtgaata aagcttatac caacaaaaaa caactaag 228

<210> 2891
<211> 446
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-D4

<400> 2891

accacgcgtc cggatcatca aatagaggat caaaaagaca cagaacgtcg acagtatttt 60
gcagttgaca agtatgagaa ctgtcaacta ttgtagactt cattttttat tagccatacg 120
taggctccat caatatgttg atcaaagcaa gaggaaagta gtggttactg gagtcggcct 180
ggtgacacct ctgagcgttg gtacgagtac tagttggaat agactgattg ctggtgagtg 240
tgcaaggagc agaattcgag cttttgatgc gtcaaggttt cctgtacaga ttgctgccga 300
cgttcctaga agcagttggg atggtttggg tccgtataga agagtgaatt gtaaagtttt 360
gcacgatgag gagtattttg atgccacaag aatagtagcg ttttctgagg aagacaagag 420
acagatacca gagtttatac agtttg 446

<210> 2892
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-D5

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-056-Q1-E1-E3
 <400> 2895
 cggacgcgtg ggcggagcct tggtgacact gctatggctg ttctgtgag tccaacgcta 60
 tatccgcagt tggatgaaac tcctgcagac cggtcatttg tatttcaagg aggtgacagt 120
 tattctgcaa aaggacagcc gtatccaatg gaaggactct attcttcata ctacggatca 180
 ggcgatattc caaaagcatc cttaacggtt gcagattatt atccgtcttc caatccctat 240
 ttgttgcatc cggtccttc gatcgattat acgtagattg attgtaaatt aacacaagtt 300
 gtgtg 305

<210> 2896
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-056-Q1-E1-E4
 <400> 2896
 accacgcgtc agtgctaata tttcgcgcgg ttatgacgaa atcaaattta cgcgcagtcg 60
 ctatgctatt cttgacagta aactgtttc tcctccgctg gaaatattcg aaaaaagtt 120
 ttcttgagca aaagaacatc aagtcgaaac cttcagtagc tattatcgtg cccattagaa 180
 ataggccatt tgaagagaag ttcataagag tctatttctc acagtatctt agccagttcc 240
 aagagtactc ttatgaaatc atctttgcag aacaaattct ggatgactat cactttaaca 300
 aacgattgct ttccaacgca gctttccttt ctttgaaaaa tcgtttctat gactgctatt 360
 gtttgcaaga cgctgatact gtgccactta ccaacgagtt gttataccgt tgtcct 416

<210> 2897
 <211> 431
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-056-Q1-E1-E5
 <400> 2897
 gttgtgttag cattttcagc aacaataatt ggacttgatg gaaggaaggc agataacata 60

tggaacgatg ccctatatta tcatggaaaa gtggtgaact tttgtgcata ttcgggttcg 120
 tctgtttttg aaggtggcga ccatggcgca tgtaaatatg tgatggcttt ggcttctatc 180
 agcttgattt tagttttctt tctttggttg gcctcctttg tcgacgcatt gtatccaatt 240
 cttacaaagt tctggtttgt ggagcttggt atcaacatat tccttactat gtggtggttg 300
 gttggtgcaa ttgtggtgac tgcaaagcga ccttctagtg ttgttatgga tgcgcttcac 360
 ataacgaaag atatcaattc aatcgaaggc ctttcatgga tcaactttgc ttttacgcta 420
 ttcctttgtg g 431

<210> 2898
 <211> 311
 <212> DNA
 <213> *Cyanidium caldarium*
 <223> Clone ID: LIB190-056-Q1-E1-E6
 <400> 2898

agtcggaatc gattgcgttt ggaggagaga gagagagaga cgaccgagtc ttttttgcga 60
 cagtgagtat catggtgacg aaaacaacca aaaatatggt tcaagtattt ggaagaaaga 120
 aaactgcggt tgcggtagcg acggttactg gttcgggaaa aggtctcatc cgagtcaacg 180
 gcgttccttt ggagttggtg caaccggaaa ttttgcgcat caaagttttt gaaccatac 240
 ttattcttgg tcaagacaag tttgcggaact tggatattcc gttaaagggtc aaaagtgggtg 300
 gacacaccaa c 311

<210> 2899
 <211> 445
 <212> DNA
 <213> *Cyanidium caldarium*
 <223> Clone ID: LIB190-056-Q1-E1-E7
 <400> 2899

acggacgtgt ggggtaagaa atggttagag taaaaggact agaagaggta cggaattcac 60
 gaggaaggag cgtgaaggaa ggaggaatcc caagtaatcg aggaagaaaa agcttcggtg 120
 aaagcgtgaa cggattttgt acacactgcc cgtcaagttc tggaagtgtg ctaggaataa 180
 gcaggagaag tagaagagag taggaaaagg aagtaaaagg agggaatgaa ggggaagttat 240

aaacgcccc aatgaacgtc cttgcacaag agagatgg 398

<210> 2902
<211> 394
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-F5

<400> 2902

gaggaacaat gcacctcata ctgctgggtt ccagtacaga cctatgaaac ttatcaatgt 60
tctcaagaga agaagaagga gtacagctat ccttgtcaaa cttatgagca ggtttcaact 120
acttaccagt gtggtcagta cgagtcccaa caagtttact accaatgcca aaagtataag 180
gagggttactc agcaagaatg ccagtacgtc caagagtcgt attgtgtcga gtatgaagaa 240
tgtcagcaag ttaccagga agtttctcct tcagaaattg tctactacgg tgaatcttct 300
tctagcagta cttacgacta ctagaacact tgtgaaatgc ccaaagtcgc aaagtacagt 360
cgtctttttt gaagaaactg ttactttttg tccc 394

<210> 2903
<211> 331
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-F8

<400> 2903

acgaagaatc agatgttgca aagaaaattc tacaataaac aggtggaaag ggagcagcgg 60
cagtagtgga tgccgtagga ggagagatcg gtacagcctg ttgttcagct cttgcaaagg 120
gaggactatt tcaaggttat ggattacaga gcggacttcc cattcaagtc agtaacagcg 180
accttatttt caaagatatt gtgattagag gtttctgggt ggcatgtgg tttcctaaac 240
aatcaccttc tgtcgttcaa gaagttttcg atatgtttag gaagaaagaa cttgttccac 300
atattcagaa gatatttcct cttgaagact a 331

<210> 2904
<211> 189
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-G1

<400> 2904

aggacgcgtg agtggcaatt attgaaacaa gaggagcggg ctttggaatc caaatgaaac 60
aaaaccgtat acaaacgtat tttatactac ttcttttaggt tgccaatgcc atggattatg 120
tcgtttgtta ataccgtct tttctttcta gtttgttcgg agacaaccag gaattatctc 180
cagtcgacg 189

<210> 2905

<211> 456

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-G8

<400> 2905

attcccgggc ccgaacacgc gtccatgttg acacaagaaa atgcctaaga aagctgttgg 60
tattgacttg ggaacaactt actcttgtgt aggagtatgg atgaacgaaa gagttgaaat 120
aattcctaatt gaccagggga acaggacgac tccttctat gtggctttca ctgacgagga 180
gcgcttaatt ggagacgcag ccaagaacca ggttgccttg aaccctcaaa atactgtatt 240
tgacgcaaag cgccttattg gtcgaaagtt ttctgacct tcggtgcaag cagatatgaa 300
acattggccc ttcaaagtaa ttgccaagga tggagataaa ccccatatac aagtaaccta 360
taaaggagag acaaagactt ttgcccctga agagatttct gcaatgggtc tgcagaagat 420
gaaggaaaca gcggaagcgt atcttggttc tgctgt 456

<210> 2906

<211> 430

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-H12

<400> 2906

acgcgtcaga atttgaaacg cgtgtttggt tttttacttt gtacttgatt cttgtaaaac 60
atgtctgacg atattgttgc cttggttatt gacaatggct cgggtatggt gaaagcagga 120
gttgacgggg acgatgctcc tcgttccgtc ttcccttcca tcgtaggtcg accaagacac 180

caagctatta tgggttggtat gggacaaaag gaaagttatg tgggtgatga ggctcagtct 240
cgaaggggta tactctctttt aaaataccca atagaacacg gtattgtcac taattgggat 300
gatatggaaa agatatggca ccatactttc tacaatgaac ttcgaattgc acctgaagag 360
catccagtcc tggtgaacga aacctcctct caatccaaag gcaaacaggg agaaaatgac 420
tcagatcatg 430

<210> 2907
<211> 433
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-057-Q1-E1-A10
<400> 2907

cgaccaagc gtcagggaga ttaaggctga gaaggagcag tagttcgctt ccggagcctg 60
aaacaaacac tcatatatac atatacatat attttctata gatatagcta ttcttcaaata 120
ggtttccaaa aagacgaaaa aatccactga gacagtctct tcaagattgg ctctcgttat 180
gaaaagcggg aagaccacgt tgggcttgaa aagtacgttg aagagccttc gtcagggaaa 240
aacaaaactc gtggtcttg gcaaataactg tctcctctt gtgcgctcac agattgaata 300
ttactgtcta ctgcgaagt gcaacgtaca ccactttcaa ggaataaca tagaactagg 360
aaccgcttgt tggaaatact tccgttggtg ctgttttagga attttggacc ctggtgactc 420
tgatattctc aag 433

<210> 2908
<211> 428
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-057-Q1-E1-A12
<400> 2908

cgaccaagc gtaagcccac gcgtccgtct gcctcttctg ttgtagaagg aggggaccat 60
ggagcgtgta aatatgtcat ggcgttggcg tctataagtt tgattctagt ctttttcttg 120
tggcttttta catttgtaga tgcgttgat cctattctta ccaagttttg gtttattgaa 180

ttgggtatca acgtgtttca aacaatgtgg tgggttggtg gagcaattgt tgtatctgca 240
 aaaaggccta caagctctgt actanacgct ttaaacatta ctaaggatat taatgctatt 300
 gaaggtccat cttggatcaa ctttgccttt agcctattcc tttgtggaat tgcaatagca 360
 gatggtttgt tggttggttc aagaagtgca tgctcgggga accataatag tggaaatagt 420
 aataatgc 428

<210> 2909
 <211> 395
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-057-Q1-E1-A5
 <400> 2909

ctaaatgcga ggattgtcat gaagcagtgt atatggccga gagaagtgac cgttggatgg 60
 gagcgcgga gatcacatgc gggttggttc gttgttcagc gtggagagtg gaacttagcc 120
 tcgggaatta cactgtgta gatggagttc tcggttcag gccgcacttt caggagcag 180
 ttcgttctgc tggaacgtag cgagcaccgg acaggagcgg gggagcgtat cgaggaagct 240
 tcaacgaagg ggaactggac aggggtgttc gtcacaaaca agtggggtgg tatcatctca 300
 aactgtaggt aatcccaacg ctaacgatgg tatgggagag tcatcgaatg ctgctgtttt 360
 acaaactagt aacaacgaca atggaaaaga aacta 395

<210> 2910
 <211> 384
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-057-Q1-E1-A9
 <400> 2910

gaccaagcg taagatacgc agcgattcca tgttgaaaga ggtacacgt atattgtccg 60
 atctcaagtt tcaggtgctt caagatggaa aacctcaggt gataacttcg gatcaagtat 120
 tcggaggaaa gaaagtacta ttgtttgggt tacctggtgc ctttactcca acctgctcta 180
 ggcagcacct tccaggcttt ggacagaacg ttgatgaaat caaatcgaag gagtagata 240
 cagtcgcttg tttagctgtc aatgaccctt ttgtattaca tcagtgggca gagtcacagg 300

gagtggcagg aaaaattccc atgttatcac atggtggtgc gcaatctgtc aagaaacttg 360
gactggatat cgataccggt gacc 384

<210> 2911
<211> 417
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-B10

<400> 2911

agcggacgcg tgggatggag tatatggctg tgattgttgt cgttgtttgg agaccatggt 60
tagcgccacc ctcagtagta tgtctagagc cagcttatgg ctcacaagg tctttttgta 120
cacagtcatt ctcgcctttt ctatcgccat agatggagtg atgggaaaaa agggcgacaa 180
tgtttggaat acaacccttt tatacaatgg gaaagtcttc gacttttgcg catataaagc 240
cagtgcgatg aaggcgatag agtataactt tatcggaac ccgcctactt gcatgtatgt 300
catcgctta gcgtcgacga gttcatcgt ctattttatc ctgtgggtgc ttaccattgt 360
ggacgtcttt taccggttcc tgaacaaata ctggccggga gagttgttta ccaatat 417

<210> 2912
<211> 74
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-C1

<400> 2912

ttacaagagc atgtacgagt gtagggaata tttaaccgcc agattctcac caacaatttg 60
ggtcgttctg tggg 74

<210> 2913
<211> 353
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-C10

<400> 2913

gacccaagcg tcagcccacg cgtccgcca cgcgccgcc cacgcgtccg gtggattccg 60

agcgcttgtc attacctacg ctagtggacg agaccatgga tgccgatgaa agctttcata 120
tcgtgacgag cgaattttcc gaggatggta cacacacagc tatcgtcact ccacgtacac 180
aaatatccag tcgtgatatc gatgcacgtg ttggtcgtcg aagaaatgaa acagtgagct 240
ttgacgacac cgtacctagc catgccttgc aacaagaaga aacagagact gtcgagtatc 300
aaggggatta tggaatggga tgcattgcgg acaatatggt cggagccagt agg 353

<210> 2914
<211> 378
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-C11

<400> 2914

cgaccaagc gtcagccac gcgtccgata ggttgcagtt gcacttgcag gtccagctcg 60
cttatcacct tctgcctggc tatctattga tggtttcgga gtatatggac cagctgatgt 120
gttttaatat tagtgcttat ccagaaagta cgctccctgc ctacagtagc aacacttcac 180
gggaggatgg gggttttgga aactttaaac cttatacaag tcctattgca atgatacgct 240
cagcctctat gatgcttcgt cattctttgg atcaacctgc agcagcggat ctgttacaac 300
aagcactgca acgtaccatg gaagatattt cgaatagtga agtttctcac aatgggttcgt 360
ttttggaatc acgggcta 378

<210> 2915
<211> 425
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-C12

<400> 2915

gaccaagcg taagtgcctt ctacgtgtat atttataag catagcaact atacttggaa 60
ctgggtattct tggccttcca gttacacttt atagctgtgg cttctttcct tttcttattg 120
tatttactct agtactatct gctcaagtat gcgtggtgtt tgcgtttggt gaactactac 180
aacgaacaga cgcttccctt gtcaagttat ccaatgagtt gcgaccaatt agtgccatcg 240
ttctgaaca agtcgaatca accagtgaca gtgccgtgga ctcagaagtg acggaacgtg 300

cagagcattc ttcaacactg cacgacggta ttctgtagt agcaggttcg tgaaaactta 360
 tttgtctgtt tttgctgatg ttgttaaaga atgcccctgt tgcttccta tttactatga 420
 gtgta 425

<210> 2916
 <211> 444
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-057-Q1-E1-C6
 <400> 2916

cggctctaagc attccggggc gacgcacgcg tccagtcaga cggaaagggt gcaaaacttt 60
 ggagtgcgtc cacgattgca gagcactttt ggcttgcgta gacttctgta gaattagact 120
 cgacacttgt ttatgttgta ctttgagtan atgagagctg tgattgaacg tgtcagccaa 180
 gcgtccgtaa ctggaggagg aaaggctcgt tccattcaag agggtaggaa ggtgagacag 240
 ggtttttagga gtaaagagta tggagtgccg ggtctctgca tgcgtttggg cagcgtgcg 300
 cgaagacacg gtaaggagga tcggttggtg tttatttttg atattttcgg gcacgctccg 360
 ttaggaggaa gatcttgaat acatgtaagt atttgggctc atgtttcgac ctacataat 420
 gtctcgtagg tgttcaaaag acac 444

<210> 2917
 <211> 304
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-057-Q1-E1-D10
 <400> 2917

gacccaagcg tcaggcgtaa gtctctcaag gccaatcctc cggaagaaat tccacgggtca 60
 aaacaagagt ccgctctagt tgactctgtg gaggatggaa agcacgtcgg cagccatgaa 120
 gaggttttca atggcgccct tcccaagttg aggttatcgc aagccccag tagcgtggat 180
 agtacgaaga aatcggagtc aggacaggtt tatctgcctt atgaaagaga taattggacc 240
 gagtcagagt cttccaacgt tggacacgtt cctgaactct cacaccacct gggttggaga 300
 cacc 304

<210> 2918
 <211> 429
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-D12

<400> 2918

gacccaagcg taaggtaaag gggttgggtg aagatggcac aaccttcct tgacgagatc 60
 ttcaagaagc ctccgaaaga ctgttcgcaa gattactgtg acccttatga attctatgaa 120
 tatcaaagat atttggaaag agagtataaa gtcaagtccg aagagtttat atatataaag 180
 gacaaagtca aggagtgtta ttatcgtgaa ggggtcgctc actataagaa ttgccgtgaa 240
 cttgttgatc agtattggaa aaagctccgc gaagtacgcc gtttctatca tgatcaccca 300
 aggattatac ctggaaagga atatattcct gttccgaagc caaggaagtc agaagaactg 360
 ctggatagtg cggatgtaga actgaaaaac gtagcagtga catcagcttg gatgaacctc 420
 agtcctaac 429

<210> 2919
 <211> 427
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-E10

<400> 2919

gacccaagcg taagcccacg cgtccgcca cgcgtccgaa tttgcaaata tttgctatct 60
 ttagcagtag tgttatttgt atctgttcat attgctcgag cacaatgctc ggaagagact 120
 atcaaacaaa tggaggcaat atttatacaa aactttacac aaaatgaagc aatggctcct 180
 atgtgcttac attctgcctt tcatgactgc tggaatggtt gtaacggagc attgttttta 240
 ccagaagaaa tagacagacc tgagaacgct ggtttacctc cgctgaaacc actgctgatg 300
 ccatttactt cacagtttcc ttgtatcagt attgcagact tgatcaactc ttgtgcggtt 360
 actgctctga agtttttggg tgggccaat tgtccaagtg tactagggaa gactcgacag 420
 aggtgtt 427

<210> 2920
 <211> 434
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-E11

<400> 2920

ccggctcgac ccaagcgtaa gacaacgtgc ctttttgag aggccattgt tgagttggga 60
 gacacaagtt tggcagtga gacttgtgaa gagttattta ctgtcgatcc tccgcacata 120
 aaatatgtct taaatggggg tgaaataatt gcaaacggct caggatctca tcaccatctt 180
 cgaaaacttg accaacgctt agatttgata cgtggagcta cttgtaaggg aggtggagtt 240
 tatttatatg ccaatcaact tggatgtgat ggaggaaggt tatattttga tggatgtgct 300
 tgtatttgtg tcaatgggtga aatagttgct caaggatctc agttttctgt ggagactgaa 360
 gtggaagtga ttgttggcac tgtagatttg gacaaagtga ctagtcacg tgttggagtt 420
 gcctcacgag gttt 434

<210> 2921
 <211> 427
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-E12

<400> 2921

gacccaagcg taagcccacg cgtccggttg gttggtttcg tcgcttcggt ctttcttttg 60
 tgattctcgt gtattgcacg agaaaaagtc cttaagatgg aaagagcttt gaaaagcagt 120
 gcacgtcttg tgcccatacg tccaaagcct gttgtacctt caaaagggtc tgaaactttt 180
 tcgttgcacg tagttggtgc cacgtgggat ggtggttgca cgtactatat aaggggagga 240
 gggatcatata ttactaatgg gagaattaca gtaccttcaa gggcgtctaa tcccatgacc 300
 aaggacgagt tcttcttact gggacttac tcgagagaca agcttttgcc gctgtttgat 360
 acaactctac aaagtccga aacacaatta tgtgggttac tttgggtgt attttcacag 420
 ttgtttt 427

<210> 2922
 <211> 430

<212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-057-Q1-E1-E8

 <400> 2922

 cggctctagca ttccggggccg angcacgcgt ccacgagctc agcttgaata acaaagaact 60
 tgcgtgggggt tggacgttat ttatgaactt ggactcgatt gacacagga ttaaggctcc 120
 ttttgacccg tttgcagacg cctcacgtgg agaggacgca ggagtagcga ggggtgtagt 180
 ggatattcgc ttgcaacaaa ggaacggccg caagtgttc ggggagcagt caagggcgtg 240
 agacaaaagg gcggttgat aaatgtgcga aggccgtcaa aaggagttt tgggtgcaacg 300
 gtggtgtcgt agacgacgga ggggggggaa gagtcacga actgcaagga cgagagaggg 360
 ataaagtcaa aaagtttcta gttcaggaga aattagctgg aaaggagctg ataaaggtgc 420
 acggtatatg 430

<210> 2923
 <211> 424
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-057-Q1-E1-E9

 <400> 2923

gacccaagcg taagcccacg cgtccgagaa agaggaaagg ttacgagag aaggaagtag 60
 aaagaagaga gtgtaaggcg gcgtcataat agaaatccga aaggagtaga agaaaagaga 120
 gagaagaaag aaaagaagag aaagccgta ctgaagaccg acacaggtac tcgaggagaa 180
 aggagacca aattaagggtg agagaatgga cgataaggaa ctaggcaaaa ggatatggta 240
 tctgcggtag aacatatgaa agaagcagca ccgactgttt agcaaaaaca cagcactctg 300
 cagaaaagag aaaatgtaaa gtatagagtg tgcggcctgc caaatagtag agaagaaatc 360
 gatgaaagtg aaagcgagta aaagatgacg tatagagaat ggcggtccta acagtaagga 420
 tcca 424

<210> 2924
 <211> 424
 <212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-F10

<400> 2924

gacccaagcg tcagcccacg cgcccgacaa tggcttattt gttgtcatag tatagaaaat 60
acaacaaaat gatgggactt gttegttggt agtggaaatt ttccgtttca tgactagatt 120
tggctttgtg ataggaccga acttctgttt tcaacggaaa cgtgcagctg acttgctgaa 180
agaaaagagg cggctgtggt ctttcccga taggacagct tgtcatggag gtgttattat 240
gagtcgatcc aacgaaagg taaccaagac tagtgtggaa cactttttgt caatggccgc 300
gaaaaagctt cgtgaagtct ttggatattc ccactttcct tctggccaag aagacgtttt 360
gcaaaaacta cttttgcctc ggtagttgct ttgggacttg ttaccaactg gtggtggaaa 420
aagt 424

<210> 2925

<211> 357

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-F11

<400> 2925

gacccaagcg tcagcccacg cgcccggtt tttgtattcg aatctcgaaa cggactagaa 60
gaaacataag aactgaaaa taaagcaaag ggtttgtagg taaaaggct ttcgtatcga 120
cgtgactaca gacaatttcg tacaagaggc gcgatggtag atcaagtatc ttcaccaca 180
ccagactcgg agcacgtgtg gtataaaagt tatcaagggtg aacaggactt gtgttacatt 240
cgagcactta ttgacaacga cttgtctgaa cccactcca tttttactta tacacacttc 300
ctcaatcact ggtcacactc acgtctccta cgctctttc caagtgaatg tactggg 357

<210> 2926

<211> 367

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-F6

<400> 2926

gcaaagaact cgattacttc ggaagttgta gattcctcgc ctaggcggat cgttgcaaga 60
gcaagcgtca actcctcggg agaaagaaag tttcgtcatg gaaagttcct acttgaaaaa 120
atagaatcgg gctcttttca ctcgaacagg gggaagccgg acttggtgcg gcctagggcg 180
gtgaagagga gaggcgggtg aagaacagcg gcgggagggg cgtttccggg cgcaagactt 240
tattcctggg gaaggaaaaa gtgcaacgca gattgccccg gagggctact tgggttgat 300
caaccacaa gaggcacttc cgagaggcgt gtgaggtgac caatacaagt gtgaagattt 360
taatggc 367

<210> 2927
<211> 411
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-057-Q1-E1-F9
<400> 2927

agcccacgcg tccggccttt aaaagcgctg cacgctgggt gttgagatac aggtttgtgg 60
attggtgaaa aagaaaagtt gtttgaggac caaacagagt gacaagaaga gatggcaagg 120
agaatattgg gtgcttatat gggagatgcc acagtggcaa ctctgttcag tatcaaaatg 180
ttgttctatc ttactatcat gggtttctcc ataactatct tggctctcat gggaaagaac 240
tcggatggta tttggataca tagtgtgcca cctgcagatc aatattgtgc atacaagtct 300
tcattggagg tgaaccacca tggaattgct tcctattgca agtatatcct tgccgtacct 360
gctattgggt tggttatctc gtctttccag ttttgctacc gtctgttggg t 411

<210> 2928
<211> 429
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-057-Q1-E1-G11
<400> 2928

gaccaagcg tcagcccacg cgtccggcga ggagagacga gattgttgtt gttgttgttg 60
tttggttggg tagttggtgg gaaagccaac cacagtgcaa gtattgttgc agatatatac 120
actagtagaa taattgttga ggtgcaccag tgtgtttgtg gggtaaaaa tattacgaga 180

aacgaacaag atgtggtggt atgtagaagc ttcatttcca acccataatc atcacaatgc 240
 taataataat aatatacatt gtattcataa gagaggagtt gcttgcaagt atgtaaacia 300
 gttggttgcc ataagtttta ctaggtcgaa tcgttgccctc aactggagca acgataccaa 360
 agcaagaata accactacta ctactactgc agtaccctgc ggaaaagaga gcagccgacc 420
 ttgttcttt 429

<210> 2929
 <211> 328
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-G5

<400> 2929

tggtgaaaga acttagatcg agagcagact ttgaccaggc tagtcaagca gacaagttcg 60
 tgccgctgga cttttatggc acttggtgcg ggccttgcta gaaggagttc tccctagctg 120
 gaagaactgt ctgctgacct tactttaaat ggggagagcg ggtagctgtt tctacgcagg 180
 tatgaggtgg agagattggc agatgttgcg caagaagttg gggattaccg cgatgccagc 240
 ttttatttgt tagagaagag gaaagaaagt cgaagaactc gtcggtgcgt cgaggaccgg 300
 ttaaaacata tgattgagaa gaacgctt 328

<210> 2930
 <211> 385
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-G6

<400> 2930

acgatggcca gcgtgaccc gtcacaattg tacctgggac tcgtttgtat gagtgggttc 60
 gacaggagga aatcttgggg aagtctgagc atcaccaagg aatcagagac ctcggaagac 120
 tgggagctcc tatggcattt gtcctgatg gagggattga aggttactat tggggcgcca 180
 cttaggatcc caggaaggga aattttcttg taggtgggag gtgtcatcca gaggagtgca 240
 gtgcgcgcac atgagatcgt tcttgctcgg agaggcgacg gtcagtatga ttagccagga 300
 tgtgcgggag tatatgagac atttagtgct gcagtgcagg cttttgcttc aaaagaagcg 360

ggtgattcgg gtccttctac aaaga

385

<210> 2931
<211> 425
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-G9

<400> 2931

gaccaagcg tcagatttct gccaccatag aaatttcgaa accgtcgttt cattttgtgg 60
cttgcttttc ttttctttca agaatgagca agactttgga ctcaattgac gattttcggg 120
ttgaagcagg tgttacacct ttctctcct tttggattcc ctgtgttacc tgtgttcttt 180
attttacgct cactagagtt ttcaagttgt tggtttcgaa tcgaaaaccc cttcgttccc 240
cttcattact gtttttttac aatggctgtt taagtttctt ctcttttatt ctctttattg 300
ctcttggtgc agttattttt gaaaagtcca aactctatac ccctcatgag ttggtttgtg 360
gctccgctac ccacatgat ggccgcctcc agtttagctt attggctaaa ttaccttttc 420
aaata 425

<210> 2932
<211> 439
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-H10

<400> 2932

gaccaagcg tcagcgacga tttggaagca atggagaatt ctcaaggtga taaaccagac 60
tggaacaaa aactggaaga aacttataaa catttggaag gtttattgaa gaaaaccgaa 120
gagatggaac agaaatgggc cagatatagc ttgtcgcagt tttcaacgga agatctcgta 180
agagaactcg aaaaaagaat gggatgggca caaggagata ttccgatgtc tgatgagaaa 240
aagagattag tattcatagg tcctcctgga agtggaagaa gaactcaagc accaaaagta 300
actcagaaat attgtttatg tcatttggca acaggagata tggtgagagc tgctgtatct 360
gcacgaacag gatttaggga aagaagcaaa gaaagttatg gacgccggtg gtctcgtatc 420
ggatgaaatt gtggtttct 439

<210> 2933
 <211> 420
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-057-Q1-E1-H11

 <400> 2933

 agagcgccgt cgcccgacc aatcccactt gtctattgaa gcacactcaa ggagcgaata 60
 aagagactac tgaaaaaaaa atcatgcaaa aaaatcaacc cgttcacgca acatagctgt 120
 tttgatgtag ttgcagttgc ccattgttat agaacgagca gagttggagt ttgagatgaa 180
 gtagtcgttg ctcaagcgaa acatagttga ctggcatcga gatgacgcac tagtgatagt 240
 ttcttccaat cgcaggtgga atagggtttc cttgtagagg ctgacttgtg gactgcgaga 300
 ttagtggtgga taaagctcat aggaagaaaa ttccacgtgc ttcaagtttt cgtcttgaac 360
 tggtgaaaaa taatggttta cttggtgaag ttgctatagc gtagaaaggt agccaacgag 420

<210> 2934
 <211> 322
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-057-Q1-E1-H12

 <400> 2934

 gacccgagcg taagcccacg cgtccgccc cgcgtccgtg ctttttctcg tcatgtcgca 60
 gtcccgtat gatcgtgcca ttacggtctt ttcccagat ggacacttat ttcaagtaga 120
 agatgccttg gaagcagtac gaaaaggaac aactgccgtt ggagttcgag ggaagaacgt 180
 catcgtcctg gcaatggaga agaagagcat tgcaaaactc caagaagcac gaactgtggc 240
 gtaaaatgtg tctattacat aagcatatat gtctgtcttt tgccagggtg acagcggatg 300
 ctcgagttct ggtgaaatcg tg 322

<210> 2935
 <211> 393
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-057-Q1-E1-H2

<400> 2935

ttcccgtagg tgcaccaggc ctgcggttg ggaaaacgac gtcgtcggaa caactcgtat 60

tgcagagtgg aattggatat cgacggctat tatggggaac aaaataggaa ggcggtgcacg 120

tactttgacg gacgtgtcag caccagacgt cagtgcgaagt tgggcaaatt ttttgggacg 180

caccggaaac gtggaactgc cagcatgggt ggattatgtg aggcgggagt gcgacgaacg 240

aactagctcc agatgggtcca gactggcgcg gcctgagaat ggcagctcgc gcgcggcaaa 300

tctgtagtcg gtccaggtag aggtgggggt gcattccgac gggatacagg tgctcgggag 360

agaaggggat cgaagcctan tcacttcccg ttg 393

<210> 2936

<211> 266

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-H8

<400> 2936

acgggtctagc cttcccgggc cgagacgcgc gtccgcgggt gtttgcttgg gtatagcgg 60

gggtgggcgtc gtcgtcgtcg ctgctgtaga cgcggttcc aagccttgag gacaaaagtc 120

catccgcaat cgacgcaagt cttcattggg gacaacgtga cgaactaccg atacccattt 180

taggcgaaga aatagaattg cgctgttgct acctacttct tgcaggctct aggtgcaacg 240

ctccgagagc tggatgagct cttcta 266

<210> 2937

<211> 329

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A1

<400> 2937

agcttacctc tccaagaacg tgttgcacgg cagtccatag aacgtgctgt aaaatgagag 60

aacgtacgag aaagccaagt gaggaaacga aggcaagtac atggcggacc gagaaaggac 120

agggcgtaag acgtgatata gactaggaag aacagataac agagctataa aggacgtcaa 180

agaagagtac cacgactaga agaggtacgg aattcacgaa gaaagaacgt gaaagaatga 240

ggaatccac gtgaggaaaa caacgcaact agagggcggc ccgagaaagt agaagagcat 300
gaaaagaaga gagaatgctg ggtggaata 329

<210> 2938
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A10

<400> 2938

agcaagagcg ttcctcagta cgggaagaag agactttgtt attaggtacc agaagtcctc 60
gaagtaattc agatattgag aatggttaga gtatctatat aaagtatata tttgctcaag 120
tatgaacgat taggaggtgt gtctttgagt accaccagcc ttgacaagaa ggaagaaacc 180
aaaaaaggcg ggaaaaagga agaacaagga aagaagaaga aagatgacga cctaaaaact 240
catatggcga acgaacgaac tttcttcaag tggttattta caggttttca tattggagct 300
atgggtactt ttattctggc attcttttca gagtctcgag atcctttcaa gttgttattg 360
gttatctttt gttggttgat tgccttgagc tttgtgtttt atggattata caa 413

<210> 2939
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A12

<400> 2939

agcccacgcg tccgcccacg cgtccgatcg tttgtggtgt ttgtgggggg agagagagag 60
atggataccg gaaaccctta tacttctgta ggcgtaagga gtacaaccg agcaaaaacc 120
agcgaatcaa agaaaaatg gaaaaagatt ctgccttata tcggaggtgt agttattcta 180
ggattggtgg ttggtttggc caaagcaaag cagcagcaag atacgggtga caagaagaag 240
acggcagtag caaaagaata aacgaagcga gacattgaaa cgctgtcgaa tggttatgaa 300
agggtgatat cgtgttggtg gttcttattg ggtagttgt tttttcgat ggattaaaag 360
aaagatagac ttgtgtctgt gattctatct gccaaaagaa aaatgctttt 410

<210> 2940
 <211> 365
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A2

<400> 2940

```
cccacgcgtc cgcgcagcga ttccatgttg aaagagggtg cacgtatatt gtccgatctc 60
aagtttcagg tgcttcaaga tggaaaaccc caggtgataa ctccggatca agtattcgga 120
ggaaagaaag tagtattggt tgggttacct ggtgccttta ctccaacctg ctctaggcag 180
caccttccag gctttggaca gaagggtgat gaaatcaa at cgaaaggagt agatacagtc 240
gcttgtttag ctgtcaatga cccttttcta ttacatcagt gggcagagtc acagggagt 300
gcaggaaaaa ttctcatggt agcagatggt ggtgcgcaat ctgtcaagaa acttggactg 360
gatat 365
```

<210> 2941
 <211> 330
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A3

<400> 2941

```
ggaagaaaga ggcacatacg ggaaagcagt aaaagaagaa agagaaagga aaaaactgag 60
tatcaggaag aaaagaggga gtagatgagg aaagaaagat caaggaagta agagtaacag 120
aaggagtaat gtgaatgaaa gcaggaaagt atttgaagaa gagagtgtaa agcgcgtagc 180
ttttgcataa tgtcccagcg agtgaaagag gaagcatcaa gacagaaaga gaagtagcca 240
ggtaagaccc gaagctagtt gacatctatgc tgtccaaacg aagtaacgct gaaccagtat 300
ctgtgggaaa aagattcgga agagatggca 330
```

<210> 2942
 <211> 354
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A8

<400> 2942

aggggcgtcg tcgtcttttg gaacattggt attggttggt gaaagtttat agaaaatgac 60
 aaaaggaact tcgagttttg gtaagagaaa taacaaaact cacgttttat gtatacgctg 120
 tgggcgaagg gcgtaccatc tacagaagaa gcgttggtgct tcttggtggg acccatctgc 180
 taaaaagaga aaattcaact ggtcggaaaa gtcgaaaaga aggcgaaacga caggcactgg 240
 tcgaatgcgg tatttgagac acctaccgcg acgattcaaa aatgggttta gagaagggtg 300
 caaggcttct tctaaacgtc ctgctccagc accttcagca gtataataat tgac 354

<210> 2943
 <211> 383
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-058-Q1-E1-B1
 <400> 2943

aggagaatgc tgggtggagt agcgaaacaa gagaaggga gtaaaaggta agaaagagga 60
 aaggtttacg agagaaggaa gtagaaagaa gagagtgtaa ggcggcgtca taatagaaat 120
 ccgaaaggag tagaagaaaa gagagagaag aaagaaaaga agagaaaagc cgtactgaag 180
 accgacacag gtactcgagg agaaaggaga cccaaattaa ggtgagagaa tggacgataa 240
 ggaactaggc aaaaggatat ggtatctgcg gtagaacata tgaaagaagc agcaccgact 300
 gtttagcana aacacagcac tctgcagaaa agagaaaatg taaagtatag agtgtgcggc 360
 ctgccaaata gtagagaaga aat 383

<210> 2944
 <211> 337
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-058-Q1-E1-B10
 <400> 2944

cggacgcgtg gggtttttgga tttcgacgat tggcagtagc agcagcaaca tgagccgtcc 60
 agaatacttg gcgcctcctg aaatatatta caacgatcag gaagctaaaa aatatttaac 120
 aagcacacga atgaacgaaa tccaaagaag cctcactgaa agagcgttgg aactgctgtg 180

tcttcctgct gaccaaaagt gcttattgct cgacttgggc tgtggctcag gtctaagtgg 240
 tgatgttatt acagaaaatg ggcacgaatg ggtaggtttt gatatatctc aagctatgtt 300
 ggatgcagct tgcaccagag acgttgaacg tgatttg 337

<210> 2945
 <211> 355
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-B6

<400> 2945

agggattgaa gaggaatgac gtcaagtcct cttccggaag aagatatcgt tgctgttgct 60
 ttgagactag tacaggaagg agacttgaat actttgacca ttcgtaaagt aaaggaactt 120
 gttaaacaac aaattagtgt tgaagactcc tatgacgacc aactcaccga gctcgtgaaa 180
 gttgctatcg atagacacat taccagtttg caacaacaaa gcatagaaga tgactcaacc 240
 aagaacacaa agaaagatac acaacaacga aacaaaccac acaacacgaa agaaatagac 300
 actagtctaa ctgaccaaga agtgtatcat caatttgaca agtacgtcg tcaat 355

<210> 2946
 <211> 255
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-B9

<400> 2946

cgcgctccgc cgcgcgtccg cccacgcgtt cggaataaaa aaaaaaggag acaaagctta 60
 agtcgcatta aacagccctt tgaaacaatt tttgtcgtca caattagggg gggttctcct 120
 cgggttttaa ctctctaata tttttgtttt gaattaaaac acctcaaaa ttttcccaa 180
 atttaattta acgggcgtcc ttttaaaagc tcttgaatgg gaaatacctt gaggtgaaca 240
 accttaacgc ctttg 255

<210> 2947
 <211> 387
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-C11

<400> 2947

agaagaactc atcgagagaa tatggtcgta tgtagaagag cacaaggaaa cgcataatgg 60
agggcgcttt ttggtacaag agctgtgtag tgttttctcg ggagatgatg tattatgcca 120
tcgagcattg tatgttttgg ttcaacagga gaaagcagtt gtatatgaaa tagaaaaaga 180
tgtttttggg gttaaatttg gtcctgatct ttctatgaaa gcgtttgata agaataatatt 240
ttcgatgatg catcaaattt cagcactgga aaagcacatt gataatttga atcaaaagtt 300
gtctgaaatg gaagaaagac taaaagtttg tgcagaaaag ttgagaaaat acaagtcttc 360
acagaatgag ctctatatga ttgagcg 387

<210> 2948

<211> 347

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-C12

<400> 2948

agcccacgcg tccgctcatg ggagaaagct ctagtgagtt gaaggtggca gaaacttggg 60
acagaacctt ggaacttggg attaagagag ttgcatatgg agtacttgta ggctcagtaa 120
ctgctttgat cttattccgt tctcccttga cgagagttgc tgtttcgagt tttggagggtg 180
gtgtaggggtt tggaatgact tatagtgaag caaaacggga ttttgaaaaa ctcaaacctg 240
cagtctcttc tcagggattg accgaggact tgtctatgaa tagttgatga ggtggtggcg 300
gcggtggtcg tcgtgaataa aagaatactc gttgttctcc tttgaaa 347

<210> 2949

<211> 358

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-C6

<400> 2949

agcaatgacg ctcattaaaa gtgtggatgc tcgagagatt ctagactcga gaggaaatcc 60
gacagttgaa gttcaagtca ctactgaact aggtgttact cgtgcagctg ttccttctgg 120

tgcttcaaca ggagttcacg aagctcacga gttgagagat aacgacaagt cgaggtttct 180
 aggaaaggga gttacaaagg cagtacaaaa tgtgaagacc gaacttgcaa aagctgtgat 240
 tggatggat tgtcgggacc aggcagcgat tgatcgcaag atgatctctt tggatggaac 300
 tccaaataaa agtagactgg gggctaatagc tataacttga gtttccatgg ctgtttgt 358

<210> 2950
 <211> 368
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-058-Q1-E1-C8
 <400> 2950

agcccacgcg tccgtcactg cagacgctgg tgccgaggac gctactccta ttcaagcagg 60
 ctccgtaaag aagaattctt ttgtagtgtt gaaaggtttt ccgtgcaaag tggtagacat 120
 atccacctca aagacaggga agcatggcca cgcaaaagcc aacatagtag gtattgatat 180
 cttcactggc aagaaatacg aagaaatgtg tcccacctcc cacaacattc tgcagccggg 240
 ggtaaccgc aaagactatc agttggtaga tattgaggac gatgggtttg tagttcttat 300
 ggatgaaaac aacgagacga gatcagacct gaaacttgat ttggagaatg atgaagtaca 360
 caagaaga 368

<210> 2951
 <211> 378
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-058-Q1-E1-D1
 <400> 2951

cccacgcgtc cgcccacgcg tccggtcctt gaaaagatat agagacatat ttatgtatgt 60
 aaactctccc tcttgtcct cgtcgactgg aacgagcctt tccaacgctc cttgtgctaa 120
 tactttgcat caaggacaag agagtgactt gcaaagcatc gtcgcaagca aacgctatga 180
 aagatatgtg agcaactcag aatgccaca aaactttttt cttgtttatc ttcgaaacag 240
 atgacctatt tttttgattt ccaactcgtc gttgaaaagt gaacggggct taaggctttc 300
 tgttcgccga caagaatatt tgaagatacg aatttgcgg tttaatgttg tcaatattta 360

ttgcttcagc aaatcat 378

<210> 2952
<211> 360
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D2

<400> 2952

agccacgcg tccgccacg cgtccggttg caagaggtgg ttttcgaagc atgatcggtg 60
tatgcaccga agaagacgaa gaaaccaaag tgctcaagga caaggtggaa ctgattcaag 120
ttcctgaaac agtggattgt cttcaaaatt tactcaatat tattccattc caacttttaa 180
gttatcactt ggcagtgcga agaggtcaca atgtggacca acctcgaaat ttagccaaat 240
cggttaccgt cgaataaatg gcgaattgtt ccatgtggag gaggtttggt tttttgtggc 300
ttgggtcaac ccttgaacga aaaatatctg gttcatttat taaaagtatt ggtaacaatc 360

<210> 2953
<211> 366
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-058-Q1-E1-D3

<400> 2953

aggtaaagcg attttttggg aaaagatgat ttcaagtcgc gatgatcggtg atcaagatgt 60
gtactggaaa tatttggagt ttgcgaccg ccacaaagtt gaatatgacc caaccgtttg 120
tatgtctttg tacgtacaaa ctggttctct acagttttca aggaaatcgg aaggtcaaca 180
agttattcct ctggttgaat tagcgaaaga aggacacctt tcatgggtgg aggaactttc 240
atacaattgc cgtcgtttat cttctctcgt ttcaaccttg ttggtcaagt tgtgtgaggc 300
actgcctcag ttgaagatgc tgaatctgtc tggaacgtnt cttggtgacg aaaattttgt 360
tgact 366

<210> 2954
<211> 357
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D6

<400> 2954

agcttctacc agaacagcag tatgtgaaaa acaaagggaa accaagagga agagtttgca 60
aggaatcaac ggaagagaaa catccgacga gacacaagtt gaatcatgca aaaccacgag 120
ataaggagat tttggaagaa gaggaaatct tcaatttact agaagctttt agaaagtatt 180
ttccagaacc accgagcaac ttgagagctc aggagataat tgaagtaggt atttgcattcc 240
cttggctttt gaataattca caggaaaacg agtaggtctg gtaggttctt tacggagaaa 300
gaacagtggg agctgtggga aaacgttttg aagccttgga gtcgaaaatg gtactca 357

<210> 2955

<211> 389

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D7

<400> 2955

agcccacgcg tccgcggacg cgtggggccg ccactacggc tactagccaa tattctagtt 60
tattaacctt tctaagaatt ggtgcctttg tgtttggtgt agctgcaggt tttggaagtg 120
cttcagcgga ccatcgtaaa agagaaaaaa ttttaatttc taaaattcac gagcgcaatg 180
ccaaaattga ggcgttgga agtgaactaa agcaactgaa aggggaaatt ccagcttcta 240
caggtgatcc agttcaagat tggttgaatc aattggaata agatgtatat gttacaagtg 300
ccttgtggaa gagagagata gtcatttgaa taaaattagt tcttttccca acaaaaataa 360
atgggacact cctaaaaaaa aagggccgg 389

<210> 2956

<211> 354

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D8

<400> 2956

cgaccacga cgtaagatcc aatatgagta aacgcaacaa ctactttgag ttgcttaccg 60
ctcgtcaact actgcccagg ggtggattcc atacccgtta cagtcaaaac aacggacctt 120

cgcggaaccc tgacaaatac gacaaaatcc tatgtttcca tcgaaccata cggaagcttc 180
 tttaccactt cccgaattct gcgtaaactt aaatttgaga gactaagact ctgctttctt 240
 cacactcaag acaaccaggt tgcgaaacca gggtaacctt gacgagcgac tcgttagtct 300
 ctcaccaccc ctctgtcta cgtgcttgaa acgtgtgcct ctgccgccct tcgt 354

<210> 2957
 <211> 397
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D9

<400> 2957

cccacgcgtc cgcccacgcg tccgacaagt tattcaacaa aaatatggga cttgtgggct 60
 tcttccaaag aacactattg tcaggcaaac acaaggatat atatccattg gttggttgcg 120
 tctctctttc tcttattatg gcaacattct tatccgttga ctaactgctc cacaatccaa 180
 ctgtattatg gaaaaagtct gaacgcgagg cctttgctcg taacgaattg gagaataaag 240
 aacgatggtc tattcggttc cttaagcaat ttcgagacca ccctattacg gtgttcaaat 300
 cactggaatt ccatacgag agcaaggaat aaggatcatc tgtaaataaa tgtccatctc 360
 tgttgtgttt tcataacgat gcaatgtctc tcacttc 397

<210> 2958
 <211> 367
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E1

<400> 2958

tcacgttcct agttgcaata atcggctctg taatatcgtc tgccactcct ctaagtgaag 60
 gatggcaaag ttctacctcc tgccaagaga catgtaagac agtctgtatt caaacgcaga 120
 tatgttcaac tccaacacct acaccaactc caagtgtttc tgcgcaacaa ggaaacgtat 180
 accgctggag tgagacgtat gcaactccta ctccaacacc aactcttggt tgtacttatg 240
 ttccgcagtg cactcaagtt tgcagcagca aatgcccag tcagacaact tctgccgtag 300
 aaagcaacag ttatacctcc tcttctactc aatcgtctac cacatcaaca tactattatg 360

gtgctgg

367

<210> 2959
<211> 276
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E10

<400> 2959

acggaatcgt attcttatga atatggatgc cgaagtacaa aatcagtggg aactgattgg 60
ttccaatgta catgagcacg actttttctt ttgacaagag ggacgatgct atgccatgca 120
gacatatgaa tatatataga tatacaccta tgcatatgta catatatgca tatatatatg 180
tatgtatcca gatttataga gataatacat gggatccata gagatagata gtttgtacag 240
ataaaggatc gatagaaatt tggcgcaaaa cccagc 276

<210> 2960
<211> 341
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E11

<400> 2960

gacccacgag tcagcccacg cgtccgcca cgcgtccggg agagtctttt atggtagcaa 60
ctatttggtc tctgtttcgt tcagctggac ttggcgtcat cgtgtttgag gcctttctac 120
ttacttcctt ggtataccct taagtgatc agataggaag ccttggttgg atgagttgat 180
ccgagttatc caacaacggg cagtcgatc gcaaagagaa gcccgacaca gttactgcat 240
tttttgtgct tgtagtgtc taaagttggc ttatccacca tatttgaaaa acgctttacg 300
ccaatcagta accaaatgta ctttcagacc ttttgactgg g 341

<210> 2961
<211> 391
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E12

<400> 2961

cccacgcgtc cgcccacgcg tccggaaatt tcgaaaccgt cgtttcattt tgtggcttgc 60
 tttttttttc tttcaagaat gagcaagact ttggactcac ttgacgattt tcggtttgaa 120
 gcaggtgtta cacctttctc ctcttttgg, attccctgtg ttacctgtgt tctttatttt 180
 acgctcacta gagttttcaa gttgttggtt tcgaatcgaa aacccttcg ttcccttca 240
 ttattgtttt ttacaatgg ctgtttaagt ttcttctctt ttattctctt tattgctctt 300
 ggtgcagtta tttttgaaaa gtccaaactc tatacccctc atgagttggt ttgtggctcc 360
 gctaccatc aggatgggcg gcctcagttt a 391

<210> 2962
 <211> 383
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E2

<400> 2962

gaatggaagc ccacagaata catttggtcc aggttgcatt caactagccg aagagaaaca 60
 agtgtttatt gtggcgatg agtttaaactc gggacaaaca aatatgaagt ctgtgctagt 120
 agagtactta gtgggtagtg gaatgaaagt ggagtcgac gtgacttata gccacttatg 180
 gaacagcgat atgtttcagt tgactgacgg agaaatgtgg aaaccagagt ctgccgcat 240
 aagtagagtt attgaagata gtgtcagttc caatgggact ttatacacgg aagatgaaat 300
 gccggatcat gtagtagtag caagatatgt gccttcgtac ggatattcga acagtgatgt 360
 cgccgagtac ctgactagaa ctt 383

<210> 2963
 <211> 346
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E3

<400> 2963

aggtatttgt tcctcttgca aatgctgcag gtcttgggaag ccgcatgtat gagttgggtg 60
 acctgagttt gagaatattg ttccctcaat cctacttaaa gttcgaaaag tggcatttat 120
 ttattcgaga ccaagcacia gatgtacttt cttccgcgca acgtgaactt cttctttgtc 180

ttatgagggga cccatTTTTta gtccgtcttg ctgaacaatt tacaattact ggtcgcacga 240
aggacatggg ttctactttt attaaaatgc tcaaacaaaa caagacaaag gagcagatcc 300
ttgactttat tgcaatgaga gttattattc gattgcgacc aggagt 346

<210> 2964
<211> 409
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-058-Q1-E1-E4
<400> 2964

agagaagaag agcgtgcgtg gaggatggat tccgttattg cactagttgg gaaagacttt 60
gttttatcag cagcagatac tgccaacgcg cgttcgggtca tagtaatgaa agacgatgtg 120
gacaagatat tggagctgga tagtcataag accttagcta tgggtgggga gccaggtgac 180
tttgtgcagt tcacggagta tatacaaaaag aatcttcacc ttacgaatt ccaaacggga 240
ttgcaactaa gtactcacgc agttgctaac ttcattcgtg gggaattggc tagattgata 300
cggaagccc ccgtattaac caacctactt ttgggggggtt atgattctgt gtccgggcct 360
tcaactgtatt acatcgacta tcttgggtact tttggaaaac tagactata 409

<210> 2965
<211> 361
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-058-Q1-E1-E5
<400> 2965

aggcacaaa tggctccaac cgattgaggg tgggtgaaag ttgacgtctg ctttgccgcc 60
tctttttggg atctctcttg tgttttgccct tttcaaagct tgaagactat ttattctgta 120
atgttttaga ggtttcttcg gagttttttt gtactagtct tattccatgc ttcgtgggtg 180
gtgaaaggct cctttcacia cagcgttgtc atgatccgc caatctctac atcttcaatt 240
gccaacttat gcgcgtatat ataagtatat ttgtacagac tcatgggtgta gaaagaagag 300
tgcaatgggt gaaaagtaac agcaaggtag taaggtagct gtanaggaag cacttgaaaa 360

a

361

<210> 2966
<211> 341
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E6

<400> 2966

gcaacgacgt cgggtgagac gggattccat ttcttaaaga ccttgaaagg aagaccagga 60
taacaagacg tttcacagga gttcatcatc agacaacaat ctgtgaacta acactgggac 120
aagtattggt ctgtacggtt ccacgaaatt ggaagacgaa atacgtgtaa ttcccgtacc 180
attgacaacg cgtcccaccg tgtaaagcag gacgccccga gagagtagag cgagtgacca 240
gataagacgc gagtctaatt gatgatattc ggtccactcc atctaaggct gaatcagtat 300
ctgttgaaaa agaattctca gatatggcct gacgagtgga a 341

<210> 2967
<211> 342
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F1

<400> 2967

agcggacgcg tgggcggacg cgtgggggaa gtgaagacgt aagacgtgaa aaaaaaagcc 60
cagaagccaa gataaggat caaagtaaag aaagaaggaa aaggagaaga agagagggta 120
ggcttagaag cagcaaacca gagaggaaag cgttaaagca tgaaagaaaa gaaatccgaa 180
aaagaagaga aaaaggtaag aaaggaggacc gaatcagggt aagaggtaga ggagcaagaa 240
gagaagagag aatgctgggt ggagtagcga aacaagagaa gggaagtaaa aggtaagaaa 300
gaggaaaggt ttacgagaga aggaagtaga aagaagagag tg 342

<210> 2968
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F11

<400> 2968

gacccacgag tcagcggatt ttcgtctttg tcttcgtcat gtcggacctc aacgaaagac 60
cgttgacgac ctcttccgta ctgtacgctg cagcaaagga gataggtttg cgtcattatt 120
tgttatagat agctttaaag agtttatgaa atcataggaa gacgatgtgc caaggagaat 180
cgggattttt tggaatgtaa gaatacggag gaaaaccgg aaagttgtct tggacagggg 240
gagaaggatga ccaactgtgt gctgcagtta ctcaaagatt tgaacgcaac ctgcccacga 300
gagtttgaag aatacagtgc gtgtcttgat aggcaatcaa gccaaacttta tctgtttgat 360
cgttgtcgaa agtttgaaag aaaccta 387

<210> 2969

<211> 404

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F12

<400> 2969

ggtatcgctt tatgttcggt cccaagttgt accaccttct agtggtgagg aagaattgga 60
ctatcctcga atactcaacg cagtacttcc tagcgggata tggatcactg gttggactag 120
tgtggatgca gaattccacg ctcgattttc agcttcttac cggacatata aatattactt 180
tagacctgaa aatttgaatc tgtgtgctat gcaacgtgca gcacaatttt ttgtaggtga 240
acatgacttt cgtaactttt gtaaagcgga cgtttcccaa gtccaaagtt ttcgaagggg 300
tatctatgcc tgcgatataa agatagttga aatgacgcac aagaatatca tagagaggca 360
actacttgag tcgatggaaa gccagccgca tcgattggac aact 404

<210> 2970

<211> 321

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F3

<400> 2970

agccatcgtc cctcgtcgtc tctccaacg agtaccaaaa cataaaatag aaaatggcaa 60
ctttactata caaaaaaaga agagcagtag ccgacggtgt tttcaaagca gaacttaacg 120

agtttctgat gcgagaattg tcggaagagg gatactctgg tgtagaagtg aaacccacgc 180
 cgttgcgaaac ggaaatcgtg atccgagcta ccagaacaca aaacgtgttg ggagaaaaag 240
 gtcgaaggat tagagaactc actgcgttgg tacagaagcg attccgtttt cctgaaggaa 300
 cagtggaaact ttatgcggaa a 321

<210> 2971
 <211> 417
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-058-Q1-E1-F6
 <400> 2971

agggtgtgtag caagcgtaga gcagaagaac tgggtgtaaa ggctcgagtag tagagtaagt 60
 gtaaaaggga aaggaaagga gagaaagagg aaagggatga aatgcagaga tctctagaga 120
 aaggcaagaa agaaaagaaa ggaagacaca gtaaattgagg cgagaaagca taggaagtga 180
 aacggattag gaacccgtgt agtctatgca gtaaaagaaa gaatgagtaa gaaaaaaggg 240
 agtcattcca ccaggggagt aaaggcgcaa gaaagaaacc caaagcaatt gacgggaatc 300
 ggaaaaaggg gtggatcacg taaattaatc cgattttaaac cgagaacctt acctctccaa 360
 gaaagtgttg cacggctgtc gnaagaacgt gctgtgaagt gagagaacgt acgagaa 417

<210> 2972
 <211> 354
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-058-Q1-E1-F7
 <400> 2972

aggcatgatg aagagcgcta tgaagttctt tgtatttagc attatttttg caaatgttgt 60
 tcttactatt caagcagcaa cagtttttgg gactttggag tcaactgaaat atacagagta 120
 tcttgacatg gtaaaggctg caggcctgga ctcgaggttt aacgactctg ctgtgacatg 180
 gactgttttt gcagcaaaca atactggagt caatgccacc ttggcaccaa agcacttggt 240
 tatttcta atcacatcta atgcgacgga gagcaaagaa attgttgaat attatgtcaa 300
 ccgtacaatt atgtcggatg agattaagcc aggaacaacg atccttacag cttt 354

<210> 2973
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F8

<400> 2973

agcgtttggg acgaagcttg acaaattccc gacaacttgc agaggtttgg aataaggctt 60
 aacaaagacg tatactcttt gctatggaaa aaatattgca agttactcca aaggaactct 120
 cctttcgtct ggaactgaac aaacccttg ttcaaactct taagctgaag aatatttctg 180
 aagagacact tgcctttaag gtgaagacga cacaacccaa aaggactttt gttaagccaa 240
 atgcagcagt aattggacca ggacaggaga tacaagtttc tattgtgttg cagcccttac 300
 cagaattacc tccagacgca aacagttgcc gtgataagtt tctactacaa gtgatcaaag 360
 tagacaaagg agcagaatcc gacgttcaag gccttgtgaa aaatgtgtcg ccagacgtt 419

<210> 2974
 <211> 352
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G1

<400> 2974

agccaacgcg tccgcccacg cgtccggata gcagtatggc acccaaggga tccaaaagtg 60
 taccggttgc tggaaaaaag cccattggta aagcagaaaa gaaaaaagcc aaaaagaagc 120
 gtgcagaatc ttacagtatt tatatttaca aagtgttgaa acaagtccat cctgacactg 180
 gtatatcttc caaagcaatg agcatcatga attcctttgt caatgatata tttgaaagga 240
 ttgcttccga gtctagcaag ctggcagcat actcaaagac aaaaactctt acttcgagag 300
 aaattcaaac tgctgtacgc cttttgttac ctggagagtt gggcaagcac gc 352

<210> 2975
 <211> 326
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G12

<400> 2975

gacccacacg tccgcccacg cgtccgcccc cgcgtccgcg ttgtggcagg tttccgcgca 60

ccacgaccaa caaaaggaca cgattattta tgtgaagctc tacttattga ttcaactcat 120

tacgctccgg gagaggaagt taccgtgggt ttggtcaaca agtcaacttc gaaagttaac 180

cctggcaaat ggtaagtga aaatcctccg gttaatggcg gtaaccttcc aaagccatga 240

accaaactgg caccaaaggg ccacttgaa gaaagttgtg ttgagcttat tgatggcgaa 300

gttgatgaag atattggagt tgttgc 326

<210> 2976

<211> 354

<212> DNA

<213> *Cyanidium caldarium*

<223> Clone ID: LIB190-058-Q1-E1-G2

<400> 2976

tcccggggac gcaagtggca cgacggaagg tagattggga agaaggcaag agagtgaaga 60

agctgcttct tcaagtggag gagacgttcc agttcccaag atacctctca ttcgtcctct 120

tgtaaacagg cgtgctgcag tctatcaaata aatctcgaac tttatttctt catacactcc 180

ttcaaattcg tcaagttacg acgtgctgcc ctctgtgtgt ttgcccccc aaatgtatgg 240

gagtggcaaa accatattag ggaagcactt tacggaattt gttttgttga accggcaggt 300

tttagagaag tatataatcg ggtttcctgg aattgctggc agtggagtga gcgc 354

<210> 2977

<211> 281

<212> DNA

<213> *Cyanidium caldarium*

<223> Clone ID: LIB190-058-Q1-E1-G3

<400> 2977

ctgcctcttc aagtggatga gacgttccac ttcccaagat acctctcatt cgtcctcttg 60

ttaacaggcg tgctgcagtc tatcaaataa tctcgaactt gatttcttca tacactcctt 120

catattcgtc aagttatcac gtgcgtcgct cagtgtgttt tgccccccag atgtatggga 180

atgtgaaaaa cagtattatg gaagcacttt atggaatttg ttttgttgaa cccgcaggtt 240

ttaaacaagt atataatcgg gtttcctgga attgctggca a

281

<210> 2978
<211> 382
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G6

<400> 2978

agcggacgcg tggggattag ttgtagtggt gttgtctttg cagtagcgtg atactaggat 60
gggaggtttc ggctactttt taaagtcaac tttgttttct ggcagacacc cggagattat 120
tccattgggt tccgctattg ctctgtgtgg agtttggtgcg gtttttgtga gcatcgacaa 180
cttgttttat aatccaaccg tggtagctct caagtcagag cgggaagcgt attcgcgcaa 240
tgagaggcaa cgtgactatg aagacagacc ctttttgaag ctggtgaaac cacttcgtga 300
ccgtcctatc agttttatct ccccaaatag tgaaaatagc aggattcctc attagttgga 360
tagtaaaata aatagttggt ga 382

<210> 2979
<211> 324
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G7

<400> 2979

gacccacgac gtcagcccac gcgtccgccc acgcgtccgg gaaggaggcc aaaatttggc 60
ccaagatctg aacgagctca tcttttggtt ccacagacat gtcgaacgac aatcagtctg 120
agaagagcac tttgaaagaa gcggaggaga agctgcagag tgcagttcat actggaacag 180
agaaagtttc tcagggtgtg agcgacgtca aggaaactgt gacggagaaa tagaaggaat 240
ggacagcgcc aaaaagtagc caagaagaag cataagatta agcacaagat gcgaaagaag 300
aggctaataa agcttttaat gcta 324

<210> 2980
<211> 371
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G8

<400> 2980

cttttatgag gaggggtggct gggagttttt aaatcctgat ttttcagagg aaggctcagg 60
caaggaagaa gatgaggagt ctagtgaagc gtcgtataat ccatcggata tggagtctga 120
ggatgattcc gaggagtatg aaccagatga cgatgtggat acgaaggaac ttgaagagag 180
ttctggtgga gaggccgaac taagttcaga agaagaaggc ttagattggg atgaaatgga 240
aagacgagcc gcagaagaag acaaggaaaa gcgtcgcttt ccggaagacg acagagaaac 300
gaacaaatcc cgcaagcgat cgcgtcgttg acgcacgctc gtccttgaag aataaattca 360
acgcattttc t 371

<210> 2981

<211> 414

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G9

<400> 2981

agcattcctg cacgaagagc aaaaagatga ttggattttg ttgttctgtc gttggaaata 60
aactatggag tcagcaacag tgcaaagggt gttttttatc gtttgctttc aaaagaaaag 120
cagtaactcg acatgtcaag ttgtttaaaa ttgtagctgg acaacacacg acaacaagc 180
aagaaacctc ttccaccaat cccttggaga gaacagtaga taccgagcag gcacaagggt 240
tgcataatac ttttgaagaa aaacctttga atgaaacctt ggatagaacg caaagatttg 300
taccaattat ggcgccaac aggtgaagaa ctttttaggc agtatcggt tccgttcggc 360
ctaaccaacg aacagttggt tgaaaagttg caactgttat cagaaagcat agaa 414

<210> 2982

<211> 377

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H1

<400> 2982

agattggaga aggaagtaga atggttcgtg agttgttcgt gatggctcgc gaacatgctc 60

cttctattat ctttatgtat gagattgatt ccatcggttc aactcgatc gattcgggaa 120
 attcgggaag tgggtgactcc gaagtccaaa gaaccatggt ggagcttttg aatcaattag 180
 atgggttcga accacaccag aacatcaaag tactgatggc aaccaaccga atagatattc 240
 tggatcctgc gttgcttcgc cctggtcgaa tcgataggaa gattgaattt cctaatacaa 300
 atgaagacgc cagactcgat attttaaaga ttcattcaag aaagatgaat cttgttcgag 360
 gcatcgactt gaaaaag 377

<210> 2983
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-058-Q1-E1-H11
 <400> 2983

agcggacgcg tgggcagtgg aggaagctgg agtatctgga aagattcttt gcaagttggg 60
 caagtggaaa ggctcgaatg atcaaaagtt gatcatgtac ttgctattag tagaacaaga 120
 actgacaaag aatgacacca gatggaaaga gaggaatgag cgacctcgga gatggttaac 180
 gtttgacgaa gcagagaaga ctattttgca agtggagagt ggtattcgaa ggctgagct 240
 aataagaatg cttttaatag cgaaagcaag aataatgact ttggacaaca atccagagtc 300
 ttattccacg gactcttctc ctgaagagga gaataacgaa aaggaatttt aacgtgttgt 360
 tgttgttgtt gtataatata catatatata tgtgcgggtc aacaataaat tcttat 416

<210> 2984
 <211> 331
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-058-Q1-E1-H12
 <400> 2984

accacagagt cagcccacgc gtccgcggac gcgtgggcga ttttgcgcaa cctttgcac 60
 ccctaattggt tggtagagac ggcggaaaag cgaagccttt gaagaagcca aagcctactt 120
 cgaaggaaact gacggaggag gattttggaat ttaagaaaag acaaaaggag gagcaggcca 180
 agttgaaagc agctcaacag cagttgaaag gaaagggcaa gaagtgactt tgcttctacg 240

agtttagctaa acaaacgctt tatttgtttc tacaactatt cgggtacttt ttgatagttt 300
ccgtgaacaa gaattaaaca ttctttctcg t 331

<210> 2985
<211> 421
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-058-Q1-E1-H2

<400> 2985

agccccacgcg tccgcccacg cgtccgcgga cgcgtggggc gtaactttgt gggtttcctt 60
acaagatgtc ttttatattt cgtggaatca aaggcctttc caatcctcgt tatggacaac 120
ccgtggattt acccaccgga ataatgtata gcttgaagca gatgtcgttc attgtccagt 180
ttgctttttc tgttgtagtc attgctatgt tctcncaagt taccttttat ctataccgtg 240
actttaagtg tgctttcgat gggcattggg attacgccac gcatagcgaa gtgtctggtc 300
ctgtgggtta ttgccgttac ttcattgctt tggggagcat ttccatcgta cttttagcta 360
ttgttgccgt agctactttt ggaacgctgt attttgaagt tcctatggac tatatccttt 420
a 421

<210> 2986
<211> 374
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H3

<400> 2986

aggatattcg agtactttgt caatctggca attattcttc attaaccagc catactagtc 60
agtatgatgg tgcagaaagt tatgcgcttt gcgactcgaa tcaagttctc caaggtgtcc 120
atgcaactat ttatagtgac gataattata taggaagcgt acgtggatac tgtgtgtcag 180
tcaatacttc aagcattgca agtcttgatt ccttgatgat gaagaaacct ccagtatcat 240
tgagaagcat tcgagctcgt tcctgaatgg cgttgctgtg tggataactg cgatatacat 300
atatatatat tcaggtatcc acagctcatt tattcaggat gaacaatcac ttttcgtagt 360

tgctgtgtgt cgtg

374

<210> 2987
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H4

<400> 2987

cccgccccaa gccacacggc aaagtcacca gccaccgttc tcgtgtgatg ttcgcaagca 60
aagcaaaaga gtggcgaaaa cccccgaca taagtccgtg gacaaacttt aaggcttgct 120
ttactggttt tggaacagcc ttggcacttt ttaccggtta tgttggtttt aaacaggcct 180
aatactattt ttacaaccct acacagacgc aagtcctcga gacgaaatcg gaagaacttg 240
gctcctgagt ttcgtgttct tgtaaagttg gaacctcacg tctatcccta catggtgtca 300
aagacaggcc actgataagg ctaaagtttt gtcctcgttc cttgggccaa agtaataaag 360
agtgttatgt tttctc 376

<210> 2988
<211> 373
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H5

<400> 2988

aggggcgcgc aacttccatc actgtctatg gtcaaagtgg ttggctgtcc accgtttcag 60
tcaccacctt tatggttata tttttcgatt atcagtgggt tatgtatatt cacttcagta 120
acctttgtac aagttgatat gggagtagtg ttggaatggt tccgaaggct ttccctatcc 180
atatttcgca ccggtggagt tttgcgtttg gcttgtggta tggcttgggg tgcccatctg 240
tttgaagcct tggtagcata tcgaatatgt acaagacttg gtggtggaaa agatacgtgg 300
aaatggacga tacaaacttt ttgcgtagga taccctccc ttcgtttggt gcagaaaagg 360
gaaaggaaga cga 373

<210> 2989
<211> 389
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H6

<400> 2989

aggattgtga aaaatgtttg cagctagatc ctcaatttgt aagagcttat gccagaaaag 60

gtgctattca tttctatatg aaagaatata ataagagttt ggatgcctat caacaaggac 120

ttcaagtgga tcctaataat gcagaattga aggaaggatt gcagaaaact ttgagtgtga 180

ttgcagaaca acaacgctcc gagaaacctg atgaagaaca aatcaaactat gcaatggcag 240

atcctgaaat tcaaaagata ttgatggatc ctgtattaca aaatttggtta caagaagcgc 300

aatccaatcc ttcttgata cagaaagcaa tgtctagtc aggaatggca gcaagatac 360

aaaaacttgt tgctgcaggt attttaactg 389

<210> 2990

<211> 382

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-058-Q1-E1-H7

<400> 2990

aatgtcccg ctcgaccac gacgtcagcg gacgcgtggg cggacgcgtg ggcggacgcg 60

tgggtgaaga agcatatcgt gaacaacagc ggcgagcaga ggaagaaaga ggcaaatagc 120

ggaaagcagt aaaagaagaa agagaaagga aaaaactgag tatcaggaag aaaagaggga 180

gtagatgagg aaagaaagat caaggaagta agagtaagag aaggagtaat gtgaatgaaa 240

gcaggaaagt atttgaagaa gagagtgtaa agcacgtacc ttttgcataa tgtcccagcg 300

agtgaagag gaagcnaaaa gaaagaaaaa gaagtagcca ggtaagaccc gaagctagtt 360

gatcttatgc tgtccaagcg aa 382

<210> 2991

<211> 389

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H8

<400> 2991

gacccacgac gtcagcccac gcgtccgcc acgcgtccgc ggacgcgtgg gcggacgcgt 60
 ggggaaagaa atgtgggtga caagttgcaa aggacgcaag gaggaggatc atcgaatatg 120
 agagcactac agcaacttgt tgcgtttcaa cacgatagct ttttatctca tcacaaaaag 180
 aatatatattt atatgccttc ttctttctcat tgccaaaagt cctcactcaa gtgggtctttt 240
 cctagaaggg cggcatctcg tcctttatct tgtcatcaag tatttgaaat aacccccgac 300
 aaacctgcag ttgttgcga ccaactttgt aaatcattca gaatagcaaa gagtcgtgat 360
 agtaagcaac cttctcgtgt ggattccgt 389

<210> 2992
 <211> 411
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H9

<400> 2992

gctttctttg taggaaattt gcgatgtccg acgatcagac gacaagactc ggctctttgt 60
 ggttgtctcg acaactatgt atctctctat ggatgttgtg gtgtggaatg aggtactcgt 120
 ataggttgga acgtttggtc atccattgac tagtgaataa tactcgattc cgtatatattt 180
 atctctttat tttctacttg tacataaaac tagttatatg tctggtagct ataaaagccc 240
 tttgccatct caacatttat attatttggg gttggtgaga gacgagatgg caatctccac 300
 tttgcttcga gaaagtagtg tcactatgac acccaatgtc ttgtcacttg aaatataata 360
 gaacataggc aatatttcgt gctgcaaagg cacttgatgc tgaaataaaa a 411

<210> 2993
 <211> 376
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A1

<400> 2993

agccacgcg tccgccacg cgtcggccca cccgtccgcc caccgcgtccg tgaatatatg 60
 gcaacgacgg gctttgtttc atcgtatcaa ggtgttgcgt tacgaccggc ttggaggaag 120
 caaactatcc gaaaccagca aacaaatacc atattgttca gaaaccacgc aaagtcttcg 180

aaagttaggt tatcgatacc ccttttcatg cagcaaactt ccaaggatga cgcggaaccc 240
gagaaacaat cgagtcaaca gggctccaaa atgtcaccaa ctactaggat tgcaggtgat 300
atctttttct ttactattac tatggcactt tttgcagtca ctctggcggc tactttgtat 360
cgctcctacc ttccgc 376

<210> 2994
<211> 423
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-059-Q1-E1-A11
<400> 2994

acgcgtcagg acaacgcgat gagagtaaga gtcaagtctt cggtgtatac ttcggcaaag 60
aagagatttc agtttttggc ttttgataag tcagaacctt ggaagtatgg ttataacaaa 120
ctacggtatc ttcaaggcga aataaagaat aaaaagtggc tgagtcctgg acatattact 180
tcgaggaatg ataagaagtg gcataaagtt cgacacgaaa gtgactagtg tgcttgtcac 240
aaggaggaag gttgtgcaat gagagcccaa gtaatccatc aaaggagctg aaçaaaaggt 300
gctttgaatt cggaacagtc tcttgagtaa aaataaagaa gagcggtaac tcaaaancaa 360
ctggcaaata aatacccctt ctttatccag tcttttatag gtatgcgctc caaaatagtc 420
acg 423

<210> 2995
<211> 420
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-059-Q1-E1-A12
<400> 2995

agccacgcgt ccgcgccttt cactggatcc ataatttaca tcattagtag gattgaattt 60
gaccatcacc aagaattctt caggtacatt tgtaggtcct ttccgagtgg taaaacctga 120
tgtcgctggt ggctcatcct ttatcgatgt gattgatgga gttcttgttc caccaccacc 180
aacttccgcc acaagtgtc caactgctgt aacttctgct cccatcacta cagtttttcc 240

aagcagcgta accagtgcac caatctctac aggaattcca agtgggtgta taagtactag 300
 tgttcccact agtgttgctg gtgttcccaa tggagcttct attatattac ctcaagcttg 360
 ctaaatecgg atagttgggt attgcaaagtg tctcgctgtg tgtgtgttgg tgtgtgtgtg 420

<210> 2996
 <211> 393
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-059-Q1-E1-A2
 <400> 2996

aggaagaaaa cgatatatgg gcaattcagc tggttgtgag tacaagttat aataatgaag 60
 tttccagtca ctttacggag aagcagaact gggtaatgaa tacaggagtc tatcatgaga 120
 ggcgttttga aaagaaggga ccttcacctg gtgcttggca agacgcgagt agttccaatt 180
 ctgataaaga aggtctccat attggcccaa actgtcaact tgtagtttgc tctgttgata 240
 acctgaaaga cttcttgggt cagcaagttt atgaacaact ccagaaagta tactcggata 300
 atgaaagcgt tttgatgaag ttggatcctc tcgcgaagtt gttgggaaga aatcttgaac 360
 gattatggag gagcgatggt cctgtggtgc ccg 393

<210> 2997
 <211> 406
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-059-Q1-E1-A4
 <400> 2997

agagtcgaac cagaagttct tatggacggc gatcacacca ttgaagactc acaaagagtt 60
 acggagagag tgttgtacga ggtatatcat gcgttacatc aacagcatgt attattagaa 120
 gggactcttt taaagcccaa tatggttctt ccgggttctg actgcaagga caaagcttct 180
 ccaaagaaaa tcgcagagta tacaattcgt acgttacagc gtactgtgcc agctgccgta 240
 cctggcattg tctttttatc aggtggacag tcagaagaag aagcttccgt gaatctcaac 300
 gccatgaatc aagtggagat gatcaagcct tggaaacttt ccttttctta cggacgtgct 360
 ttgcagtctt catgtctgaa agcgtggcaa ggaaaggcag agaattg 406

<210> 2998
 <211> 377
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A5

<400> 2998

aagggggttg gcattggaca ctatatggca agaagcgacg acgaatacga ctatttggtc 60
 aaaattgttc ttattggaga ttccggggtc ggcaagtcaa accttctcgc gcgggtttact 120
 cgcaacgagt ttaacctcga gtccaagtcc acgattgggg taaaatttgc gacgaaaagt 180
 gttcaaaacc gaagggaaga cattaanaagc acaattatgg gacactgctg gtcaagaacg 240
 gtaccgtgct atcacctctg cgtattatcg aggtgccgtt ggagcacttc tcgtatacga 300
 tatctcgaag aaggaatcct ttattggtgt agaaaaatgg ctaaaagagc ttcgtgatca 360
 cgcggatagt aatatag 377

<210> 2999
 <211> 375
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A6

<400> 2999

agcaaattga acaaatgatg gattcgtctt gctcttccca ggctcaagca tcgagcgaca 60
 acctgcgaga gttttttttt tctgtgtggt aaactgaagg agacaaaacg gaaagggttg 120
 attgatcacc atgtccgtca acccgagtcc gtcagcgatc atatgtaccg tatggctttg 180
 atctgttttt gtttagcacc aagtcactta aatcgagaaa agttaataaaa actagcactg 240
 gttcatgatc taggagagtc tctggttgga gatatcaccc cacatgatgg tgtctcgccg 300
 gaagaaaaga agaaactgga gaccgaagcg ttttgcaaaa tacgagacga atatttatcg 360
 tcttgtgcag ttggt 375

<210> 3000
 <211> 358
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A7

<400> 3000

agcgttttgg tgcagttgta cattcaacat catcaaatgc caaagggagg aaagaaagat 60
tcttcaaaga aagaagccac aagtaaacct gcagcagcag atgctacaaa gacgacagaa 120
aagtctggtc cggaagccaa gttgaagga actggtgcat agaaacaata gaaagttgac 180
tatgcatgtt cctgttatgt tttgtgagtt ctgtttgata gtttccagct attcttttgg 240
tagtgaataa agagaaaaat ttttagattt acacaatcac cccacatgat ggtgtctcgc 300
cggaaagaaa aaaaggaaac tggagaccga agcgttttgc aaaatacgag acgaatat 358

<210> 3001

<211> 427

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A9

<400> 3001

agaaataaac aaccaccatc aggaagaaca accattcaag gagtccgcgt cgaaagaagt 60
caacgacaag ttcgacaaa cctatgccga aagcgttgcc aaggaaatca tagaaagcac 120
cgtggggagaa gagaaatacg aacacacaaa gacagtggaa tggaccaatc aaatgtgtga 180
aaaaatactg agcaagttgt tggagctgca aaagcctttc aaatatatag tctcttggtc 240
tttattgcaa aagaaaggag ccggattcca tactgcgacg acgtgttatt gggatgccga 300
atgtgaccaa tgctgtactg tcaaacatga gaccaaatac ttgcacgtca taagcaccaa 360
ttaagcgcgg ttcaattcac tagtcaaagt atcattctag cccgcacaca aatatgttca 420
actcgta 427

<210> 3002

<211> 370

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B1

<400> 3002

aggaagaaaa gagagagaag aaagaaaaga agagaaaagc cgtactgaag accgacacaa 60

gtactcgagg agaaaggaga cccaaattaa ggtgagagaa tggacgataa ggaactaagc 120
aaaaggatat ggtatctgcg gtagaacata tgaaagaagc agcaccgact gtttagcaaa 180
aacacagcac tctgcagaaa agagaaaatg taaagtatag agtgtgcggc ctgccaaata 240
gtagagaaga aatcgatgaa agtgaaagcg agtaaaagat gaggtataga gaatggcggg 300
cctaacagta aggatccaaa ggtagcgaag taaatagacg tttgaaaggc gtccagtatg 360
aaaggagaaa 370

<210> 3003
<211> 310
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-059-Q1-E1-B11

<400> 3003
ccggagaaaa aaaagaaaag aagaaaaaaaa cccttctgaa aaaccacaca agttctccaa 60
ggaaaaaggg aaccanattt agggtaaaaa atggacgata aggaactaag caaaaggata 120
tggtatctgc ggtagaacat atgaaagaag cagcaccgac tgtttagcaa aaacacagca 180
ctctgcagaa aagagaaaat gtaaagtata gagtgtgcgg cctgccaaat agtagagaag 240
aaatcgatga aagtgaaagc gagtaaaaga tgaggtatag agaatggcgg tcctaacagt 300
aaggatccaa 310

<210> 3004
<211> 343
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B12

<400> 3004
caagccttca gccaaagcctt cggccaagcc ttcggaaatt cgttgctttg ggaattaagg 60
ctgaaaagga gaattatttc gcttccggac cctgaaacaa acactcatat atacatatac 120
atatattttc tatagatata gctattcttc aaatggtttc caaaaagacg aaaaaatcca 180
ctgaaacagt ctcttcaaga ttggctctcg ttatgaaaag cggaaagacc acgttgggct 240
tgaaaagtac gttgaagagc cttcgtcagg gaaaaacaaa actcgtgggtc ttggcaaata 300

actgtcctcc tcttgtgcgc tcacagattg aatattactg tct 343

<210> 3005
<211> 397
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B3

<400> 3005

gaccacgcgt cagggcaatt cgaatcatct acttaaagac acctttttcc ccttcctacg 60
cacgaacgct cgtaatatgt tgtttcattg ctctgtaagt ttatgtacga aaattataga 120
aaccaaagaa actgcatatc ttgaacgata caaagggtctt tggatccttt ggggaatagt 180
cctaggtgga ttcagtgaat gttgttactg ttccccggag gtcttgtgaa ccatcagctc 240
tagtatagtg acttttgcac acaaactatt ataaaagtat ttcacggaaa gtattgaaat 300
ttttgacttt gcagtttgca gtcgtccagt aaacactaga ttactagtta aaaaatgtaa 360
acgttaagta ataaaatata tgttcaaacg aaaccaa 397

<210> 3006
<211> 402
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-059-Q1-E1-B5

<400> 3006

cgctgggtgt ataggagacg ttggctggta tgtgggtcga tttattctat catttggttg 60
atacgatcgt aaagttatct cgggtgatgc agttggcaat gaaacggaag gaggatcgat 120
ggacgattgc gcaggagttg tggagtttga agagaacatt actgcacact ttgactgtgg 180
attcacaagt ggttatagac aatgggggtga atgttttaggt acacttggaa tgttgagagt 240
ggaacgtttt caaggagctc cggttcctaa taatacagaa gagaaggatc ccaatttgca 300
cttcagttt cgtcaacttg gagaagaaag aaatggccgc attgaaaggg tagaaagggg 360
aaccaaagac atttgggttg caaatgttgg gnggaaaaca ca 402

<210> 3007

<211> 282
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-059-Q1-E1-B6

 <400> 3007

 cccacgcgtc cggagtcaga gtcatttggt cgaatgtttg aaattggtgc cggtagaagg 60
 agtgctttta gtttgatatt ggatgaagac gaataagaaa gtgacgaaga ggaagaagaa 120
 gaagacaaaag aggaagaaat gggcagtgag tatggaatga gtagtgattc tgattccagt 180
 agatttatga gttatgacga agaagaagaa gatagttcag atgacgaaga tcaagtctct 240
 gatgttccca tgtttggcct gatcgtacat gaagaagaaa tg 282

<210> 3008
 <211> 367
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-059-Q1-E1-B8

 <400> 3008

 agcgtatgca ggaaagaaga aggtaaagga agagaaggaa gaagcagaga gggactatga 60
 gcgagaaggt ggatagtcga tagggaaaaa gcccataagc caagataagg tatcaaagta 120
 aagaaagaag gaaaaggaga agaagagagg gtaggcttag aagcagcaaa ccagagagga 180
 aagcgttaaa gcatgaaaga aaagaaatcc gaaaaagaag agaaaaaggg aagaaaagag 240
 ggagtagatg aggaagaaaa gatcaaggaa gtaagagtaa gagaaggagt aatgtgaatg 300
 aaagcaggaa agtatattgaa gaagagagtg taaagcgcgt accttttgca taatgtccca 360
 gcgagtg 367

<210> 3009
 <211> 439
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-059-Q1-E1-B9

 <400> 3009

 cgggtcgggc cagcgtcag cccaagcgtc cgccacgcg tccgccacg cgtccgcaac 60

atcatccgtc agaaatgcaa agtaaagga gtatggagca aaaagaatat gaagctccca 120
aagatggtga cgaaatccaa gaacaacaac ttccgtttat ccaagtgtgg aaacattggcc 180
actcagatat aactgtttgt agaattttcg gagtgtgtat tggctcaaaa ggtctccgtg 240
tattccagaa tactagtaag gcaaaaaaac aacttgaata ctgtggaatc aaacctcatc 300
tttatgaaag cagtggagtt gaagagtggg taaaaatatc agcaatgtct aactattcaa 360
ttcaacttga ccaagaactc cgttcctaatt ttgccttaag gaacacatat gcccatttc 420
attgaagatg taacccct 439

<210> 3010
<211> 383
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-059-Q1-E1-C1
<400> 3010

agcccacgcg tccggaatcc agtgtttttc agcttaatat ttgcagtgtc tgtagttgca 60
gtggcatgtc cttgtgcatt gggtttagca actccttctg catttatgac tgcttctagt 120
gtcgtgttgc gttatggaat attgcttaaa gaaagtatcg tagtacaata tctataccac 180
gctgcctgta tcattttcga taagacagga accctgactt gtggaaagcc aaaggtctca 240
gaagttcaag gtcttaagat agttgcaggt ctgatattg acaagataat aagtttggtt 300
gctcaagtgg agagtcactc agaccatcct tatgcaaag ctattgttcg ttacgcgga 360
gaaactcgag gtttgcattg ttc 383

<210> 3011
<211> 418
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-059-Q1-E1-C10
<400> 3011

agatcattcc agtgctattc cagtgaacaa aaacggcaat gacttttgta atgcaccttt 60
cgctcaatgt cctcaagata cttactactt tgacctcgtc gataaatccg ataacctttc 120
catcaaattg tattggagat gggcaccgga gttttccgat attcaatgtc ccatgaaagt 180

tctttctggt tctgttcccc gtcacaatta tagttttcct agtgggtccag atactgtttc 240
atgtgatatc aatatcatgg acgctgggtca atgggaattg tttgcaaagg atgccaatgt 300
gtctactgca ggctattctc aaggcataag taatttgagc aaatgtttct cttccgataa 360
gagtgcccaà tacttttggga ttgccgctta tgcattgaca ctttcccaac tgaaaatc 418

<210> 3012
<211> 317
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-059-Q1-E1-C11
<400> 3012

ccggccaagc cttcgcccaa cccgtcggcc aagcgtccgg gaagaaagag gcaaatacgg 60
gaaagcagta aaagaagaaa gagaaaggaa aaaactgagt atcaggaaga aaagagggag 120
tagatgagga aagaaagatc aaggaagtaa gagtaagaga aggagtaatg tgaatgaaag 180
caggaaagta tttgaagaag agagtgtaaa gcgcgtacct tttgcataat gtcccagcga 240
gtgaaagagg aagcaaaaag aaagaaaaag aagtagccag gtaagaccg aagctagttg 300
atcttatgct gtccaag 317

<210> 3013
<211> 416
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-059-Q1-E1-C12
<400> 3013

agtggaagaa gtcgcctact ttggtgccaa gtacgaacga ttccttggat aacaacttgt 60
tgcttgactt gggttaaata ttagtattta caagaatggc tagtgtttcg ggtcttcctc 120
gaagaattat aaaggagacg gaaaagttac ttcaggatcc agttcctgga attagtgtg 180
ttcctcagca agacaatgct cgttatttca atgtgattat ccagggtcct gattcttccc 240
cttatgaagg aggaacattc aagttggagt tattttcttc cgaagactat cccatggctc 300
ctcccaaagt tcgtttcttg acaaagatat atcatccgaa tattgaccgc ttgggaaaga 360
tctgtttgga tatattgaaa gataaatgga gtccagcatt gcaaatacga actggt 416

<210> 3014
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-059-Q1-E1-C2

 <400> 3014

 agccccacgcg tccgcattgt tgaattttcc tgtttcgttt acttgtcttt ttgttgagtt 60
 atcatggcac gaacaaaaca aacagcacgc aagtctaccg gtggtaaggc acctcgaaag 120
 cacttggcaa ccaaggcagc aagaaaatcc gcacccgtaa ctggaggagt gaagaagccc 180
 catcgttacc gtcccgttac tgtcgccctg agagaaattc gcaagtacca gaagagcact 240
 gaactttctta tccgaaagtt gcctttccaa aggttggttc gtgaaattgc tcaagacttt 300
 aagacggacc tacgtttcca aacttcggcg gtgactgccc ttcaagaagc ctcggaagca 360
 tacttggtcg gtttgtttga agataccaat ctttgcgcaa ttcatgcca 409

<210> 3015
 <211> 389
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-059-Q1-E1-C3

 <400> 3015

 cgaccacgcg tcagcccacg cgtcctgttt ttttatTTTT cagtttcgtc tatttgcgt 60
 tttgatgtgt tatcatggga ccatcaaat aggcagcagc caagtctact ggtggatagg 120
 ctgctccaaa tcacttggtat atcaaagcaa caagagcgat ccgcaccctt aactggaaga 180
 gtgtcgaagc cacatcggtt gcgtcacggt actgtcgccc tgagacaaat tcttctgtat 240
 cacaaaacga ctgaacttct tatcggcaag ttgcctttcc aagtgtgat tcgtgaaatt 300
 gctcaagact ttatgaccga cctacgtttc caggcttcgg ccgtgactgg ccttcaagaa 360
 gcctcgggag catacctaata cggtttgggt 389

<210> 3016
 <211> 392
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-059-Q1-E1-C4

<400> 3016

agcacgttca taggagtgaataataacgttc ttcccgatgc attatttggg attaggagga 60
 atgccacgta ggataggaga atatgcggat ggatatgagg gatggaatag ggtagcgagt 120
 tatggatcga taataacggt gttatcgatg ttatactgga tgtggttggg agtgaagagt 180
 tgggagaagg gtaaggagag tgagttaagg tgggaaggaa ggagtataga gtgggggatg 240
 agtaggatag gttatcataa ctggaaggag gaggtgatgt tagtgaaggg gatggggtaa 300
 ggccgagtan gaggaggtaa tggaatttgg atccgtgtgg tgggtggttcg agtccaccta 360
 cccagtgagg ggtaatggag aagagaagaa ag 392

<210> 3017
 <211> 433
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C5

<400> 3017

tcccggtcgc acccacacgt caccgccacg cgtccgcca cgcgtccgcg tgtctccatt 60
 tgctgtctct cgacgctcat tcgatcgtcg cttttagca acctaagaga cttgtttttt 120
 tctcttttgc tttctcttaa ctacggtaca ggtattgggg gtttggtgaa agtattgccca 180
 aagggaaaga gtcacttacg ttcattgggt caccgtaaagc tcgtgatggg ggcttgccct 240
 ttgcaacctc tccaaagaac ctgggagtat cacttccaac aaatatggag cgaaatggaa 300
 agcgacagga aactgtgttt cggctctgca atagaaacga acagaaaacg gaaagcgtca 360
 agaaggaaag taccctctta gcttctatgt ttggtgatga ctcttcggaa acagttgaag 420
 gaaaaatctg tgg 433

<210> 3018
 <211> 399
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-D1

<400> 3018

ccggctcgac cacgcgtcag cccacgcgtc cggtagaaga aaagggagtc attccaacaa 60
 gggagtaaag ggcgaagaaa gaaacccaaa gcaattgacg ggaatcggaa aaaggggtgg 120
 atcacgtaaa ttaatccgat taaaccgaga accttacctc tccaagaagg tggtgcacgg 180
 ctgtcgaaaag aacgtgctgt gaagtgcgag aacgtacgag aaagccaagt gaggaaga 240
 aggcaagtaa agggcgggcc gagaaaggaa agggcgtaag acgtgataca gagtaggaag 300
 aaaagagaag agagctagaa aggaggtaaa agaagagtaa aaggactaga agaggtacgg 360
 aattcacgag gaaggagcgt gaaggaagga ggaatccca 399

<210> 3019
 <211> 380
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-059-Q1-E1-D11
 <400> 3019

tttcgtacga acctcgtctt aagagtctgt tcaaggccac agtgctatgt tgcgaagctt 60
 ggtgcttaac catccacgtt gagcttttat ttttatctct ggtctttctc gtataggaca 120
 ctgataggca aaaacctcgg acacttggga ctttcgaggt ctatcgtaat aaacactaaa 180
 tttgtaaagt tatctgctgc ttgcagtcga aacttcagga tgccttgtgt tgaggcatca 240
 gctggtgctt ggttgactaa gattcttcca aaaatatctt ggatacctag agggaaaaaa 300
 tccatccaaa aaatttctaa gcccaaccagc caatcaagac aagggcaggg aaccacgaca 360
 gtgcttgctt gttgacacag 380

<210> 3020
 <211> 405
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-059-Q1-E1-D12
 <400> 3020

ccaagccttc gccggaccct tgggcgggaa aattcgggtt tccgtgggtg tggtggttgt 60
 ggtgttatta taatatgcct tctttacaag aagatttgct tcatccagat cccgcggtgg 120

aggcacgaaa acacaagttg agaaggcttg taccgagtc caactcgttt ttcattggacg 180
tcaagtgtccc aggttggtttt cagattacta ctgtcttttag tcacgctcaa acggtgggtga 240
tgtgtggaaa ctgttctact gttctttgtc aaccacagg tggtaaagca agattaatgg 300
aatcctgttc gtttagaaag aaagcggatt gagtgaaagt gnacaagtcc gctgtcatag 360
aaacttaaga ggaaatccaa caaaaagtct agtatccacg aggtt 405

<210> 3021
<211> 145
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-D2

<400> 3021

caagccttcg gaaaaaaaaa aaggaaacaa atcaacaaag aaaataaaag aacaaaaaaaa 60
aaaacaaaaa acaaataaca gaaaacaaga aaaaagggtg gatcaaatgg ggggaatccg 120
aataaaacga taaaccttac atcgg 145

<210> 3022
<211> 365
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-D3

<400> 3022

cgcgctcaacc cacgcgtccg ataagaaaaa agggagtcac tccaccaacg gactaaaggc 60
gcaagaaaaa aacccaaaag cacttgacag gaatcgcaac aaaagggtgg atcacgtggg 120
gggatccgct taaacccaaa accttaacct cggccaagaa ggtgttgac tgctgtccaa 180
agaacgtgct gtgaagtga acaacgtccc agaaagccac gtgaggaata caaggcaagt 240
cgagggcggc ccaacaacgg agacggcgta cgacgtgata aacactcaga acaaccaga 300
acacatctac aaatgaggta aaacacgact aaaacgacta gaccacgtac ggaattcact 360
acgaa 365

<210> 3023
<211> 408
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-D4

<400> 3023

aggggaaaat cccgttcaaa ttaggctaag ggtgcttggg attaccggca tgggttctttt 60

cgagtttgac gaagaagact tgctgtcagc agatgacact atttttaacg tgggaaggctc 120

tggagatgag tgggtggaagg agttgagttg ggaagaaagc aacctttttc gagtagcgctc 180

ggaacagagc ttgagcggct tggcaagtac ttctggaatt gccgagtttg actcgaggaa 240

gcttttttct ggagtgccta agaaggaatt taaagaaggt ggcgagacga cagtgattga 300

ttatttgtca aacgagtttt atccaacctc cgcccctaga atatccgaac cttgtgcgctc 360

gtctagctat tcacacgcaa tgcctccaac agaagcgctg ttgaattc 408

<210> 3024

<211> 406

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-059-Q1-E1-D8

<400> 3024

agtgtttggt ggtgtgtgtg tggaatgacg agtgtccata ccgaagacac ttcaaattgg 60

gaaaaagtat tcttgcggtt agaaaaaagg ttccaatatt tggaatatct agaaaaaagt 120

gcgttgatc ccaatatact cgtacctgcg tggatatcgag acaatgtgca aaatactttg 180

ccgttggtat cccttttggt cgagcgtttg gaacaagaac atgtggtaga tattgcagaa 240

gaggatttcg atggccatat agatgatagc attcagcaca agatacagga actagaaaaa 300

tggaaccaa aatggaagtc gttggaagaa ttggcatcga tggttgcgac cacccaatga 360

cgangaggaa aggagacacg ataataagac catattttca tttttc 406

<210> 3025

<211> 291

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-D9

<400> 3025

agcaaaaaat ggggaaagga caagctttga ttcaaacaaa tgaatgggtt tcaggtttat 60
 cgggattgaa cggtataaac actgatgaag aagaaccgac tttgtgattg cttcgtcact 120
 gtagtctttt attttgtgga tggtcacagg gtgccattca tgctgtttta tgatggagtt 180
 gttagtaata attgttgaat atattttagg atttttagtaa tctaaaaaaa agccatgttg 240
 tttcttgttt ggggtttgat aaaggatgtg acggaattat ttgtcttgtg g 291

<210> 3026
 <211> 391
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E1

<400> 3026

gaccacgcgt cagcggacgc gtgggtttgt gattctctca agtggggaca accatataac 60
 aatattatgg cagacacaga actacttgca gcgattcagg aagttttaaa aaagtctctt 120
 atggttgatg gtgtgacgag agggattcgc gaatccgttc gatgcattga agccggacaa 180
 gcccactag tcattcttgc ggaagattgt gaccaacctg gaataccagc gttggtagaa 240
 gcgctttgtg cggaacaagg tgtcaacttg gtaaaggtag cggagcgaaa acaactagga 300
 gaatgggctg gcttgtgcaa gattgatcaa gaaggaaatg ccaccaaagt agtagcttgt 360
 tcttgtgtgg tagttaggga ctttggagaa c 391

<210> 3027
 <211> 393
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E10

<400> 3027

agcaaaaaac ataaaatatg tcttttcttt tagaactttt aaaagaaatt cgctggagag 60
 gactttgggg aacttttcaa gcagccaaaa tgaatagact ggtacaatg aagtactttg 120
 tcggcgaaga cgagtttcac aaccgatact ttcaaaaagt aaacgatgtt atgttgaagg 180
 atcgttgggt ggaatatgct tctaaggaat tcactcctga tccttattcg ttacctcctg 240
 agtggtagta gaatacttgt ctttcgttta ctttttctta ttttctaggc atgcctggct 300

gcacatatt atagatgagc caccacaaa agtaggtttc cagagaccaa agtatcaagc 360
acagatcgtc gcaaaccgta caggcacaac agt 393

<210> 3028
<211> 423
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-059-Q1-E1-E11

<400> 3028

agcaaagctc ttccttatat tctttgtgct tggacaatgg ttgcaaagac tgctctgagt 60
tgccctcttc tctctttcct tategctgcc gcagttgcag ccgacgtagt ttcagaggag 120
agatggggat atgctcagca aacccaacaa cagcaacagt gccacaagt atgtaaacag 180
tatgcatact atcagagtcc agtctgcact tccgtaacca cacagagccc atactggacc 240
caatgctcga agactgtgca aacctttgtc ccaagccagt gcagtactta tacccaatct 300
cctacatgga cctattgcag cacctacacc accactagcg taccatctca atggaacaag 360
ggccttgact acctatactc aaacctgctg tgcttatgcc caacanactt cctatgcagt 420
cag 423

<210> 3029
<211> 419
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E2

<400> 3029

ctcgaccaac ccttcagcaa aatatttacc ccggaacat aataaatatg gggctgataa 60
tgtaaaaaag gtccttaac aacatgatgt ttgacatggg catcgatatt cagaacatgt 120
atgtaaagtt catttttgac gagaatcaca agcaaaagaa aggcgagttt gtgcaagagg 180
tgaaagggaa gcttgatttg gtggagaagt ttatgaagcg tcaagggaaa ccttatttgg 240
caagcagtga acctacgttt gccgattatc tcatgtttga ggttttggac gtgatcaaga 300
gacaacagga agatattttg aaagatttcc cgttgttgca aggtttctat gaaaagatgg 360

gtagccgtcc gaacattggt gcgtatcgta aatccgaccg tttctatgag aaacctgtt 419

<210> 3030
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E3

<400> 3030

aggatcatatt gaaggttttc ataattattcc attggatcaa cttgcttcca gaggacaga 60
agtaagtaag ataagatatg aatttgtatt aaagttttga gatgattaga ttcaacaaca 120
agtcaaccaa ggaaagcgca ttttggtgat atgctgctgt ggcaatgctg ctcaacaagc 180
agttgcctta ctgtccagtt ggaatattca tcctgtatac gacatttttg gtggtataga 240
agaatggcgg aaacaatgtg atccttcact tccttattat tagatgataa cagcatactt 300
tctttatttg gatgccacaa gtttctcgac gatggaaaca catcgatgac aaagttgtgg 360
atgtgtttca ttttgaaga cagtcgtgga aaagttccaa catcgaatgc 410

<210> 3031
<211> 279
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E6

<400> 3031

cgactcaagc gtcacgcca cgcgtccgcc cagcgtccg aaattgagaa gacattggaa 60
tgggcgcgaa acaataagat tcttgccaac tagagtcgat gcaaccatta ggaaagattg 120
tgtaagaata ataccagcga acaacggagt aaataatggt tgatgagaga agtgaaaggg 180
aagcttgatt tgggtggagaa gtttatcaaa cgcccgggga caccttaggt tccaagcatt 240
gataccaggt atgccgatta acacatcttc gaagttttc 279

<210> 3032
<211> 357
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E9

<400> 3032

acgcgtcaga taaaaccacc gaaagtgata tacctgttga ggactccatt atttcagacc 60
tggctgaaaa gacacttatg tgttgtattg aattattgcc tgaaaatgag attcgcgaga 120
aaactttatg tttgaaaaca attgcaagtt cgttggacgt tttatcaatc aactctaaga 180
aattgttgcc agttattcct tctaatttga atgcagtaaa taaggagttg acgacttgga 240
acgtgagcgt cagctctgaa cacccgaaaa gctcaatcaa cgacgatgga cgacgggact 300
cgcttgtctt tagttgtcgc caatcagaag aagaatcgct ttctaacaaa caatacg 357

<210> 3033

<211> 408

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-F1

<400> 3033

agacaatata gaagttgtgc ctgttgcaga tgcggagaa gttccaagtg tcgtgtttca 60
ttttacaaaa atcgcgaaacc tggaaaacgt gaatgcagga gaattctgtg atgtacttgg 120
aatagtgaag gatgtttcgg agttgtcttc tgttgtttct agaactactg gcagtaccct 180
ggtcaaaaaga acagttgttt taatggacga taccttgaag tcaattcgac ttactttgtg 240
gaaagataat gcagaaaaat tactcacctc tgctgaaggt aatcctgttt tgctctgtaa 300
aggagttcga cgcgagagact ttaatggaat ctcatggat gccactactc agtcctgttt 360
tgaagtaaac cctgatatta aagaggcaca tgagttgcgt gggtggtg 408

<210> 3034

<211> 413

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-F2

<400> 3034

ccggctcgac cacgcgtcag cccacgcgtc cgctgacggt tactgtaccc aagaaacagg 60
tggagaaaagc agaaagccaa aagatagaga ttgcgaacga gtagagcacc ttgagtttgt 120
ttgttgtgta tagataaaca ttgaggttgt gtttttattt ttgtaaaaaa aaaaaaaaaa 180

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa agggggggcc ccccaaaggg ttcaactta attaaccggt aaaggaaatt 360
 taaaaccctt caaaaatggc ccccaaattc aatttcccgg cccctttttt aaa 413

<210> 3035
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-059-Q1-E1-F3
 <400> 3035

agagaaattt ctacgcatac tttaaatagc catgtggatg tcggtgtatc gtgacaagat 60
 cgtggattga tcaacaacca acgagagcaa gcgagctact atttggcgtg tcatcatgag 120
 cgagttgggt cgacctgggc gtttctttga tagcagtttt ggagacttgt tttcatgggc 180
 aaccgaccct ttttatcgag atatctgggc tatcacacca cgtagttttg aagggtcaaac 240
 atgggtcgctt aggatagacc ttgtagagaa agacgactgt ttcttgggtga aagcggaagt 300
 acctggagta ccaagggaag agatcaatgt agatttgaaa ggtgatattc taacgataac 360
 tgggggagaag gaagacgaga aaaagtcgga tgaagaacgg ga 402

<210> 3036
 <211> 269
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-059-Q1-E1-F5
 <400> 3036

agcccacgcg tccgcggacg cgtgggagag gcggcaaaag gaacaaatgg ttgttttctg 60
 tctctttctc actctcgata tatgtatata tatatatata tgtatgtata tatatattat 120
 gcactgttgt catagtgtct gtgtaaaagc aacctattct ttatcgagac aacaacagca 180
 gtgaccattc tcaactgaata aacttggtta ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaagaaaaaa aaacaaaaaa 269

<210> 3037

<211> 407
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-059-Q1-E1-F7

 <400> 3037

 agccacgcg tccggcaaaa ctgccctggg ataatgtttt gagactattt gaggcaattc 60
 gtcttttgat ttgaaagggg tggaaagaaa tagagcctaa aaagtttccg ttgtctcttt 120
 gaaactgttg aagagatttc tttgtcctat atatgcagtt gtaagagttg gagggtatttg 180
 aaccaaactc gagagacttc gaggagactc ctttttacat agtgatcact agcacgcacg 240
 caagtaattc tcccaaaata gggcagttgt taaaaacgat atcgaagaaa ttcaaactcg 300
 atcgtcaacg aaactaagat cagggagctg aaatcgtgaa tggtgacgat ccagaggaga 360
 cttgttgga ctgttaaaac aaagtttagc tatcatgcaa cttttca 407

<210> 3038
 <211> 353
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-059-Q1-E1-F9

 <400> 3038

 agacaacttg gccaaagacg gttgtcaaag tggcgggtgg ggtttgagtg gcatagtgtc 60
 tcgcgttcag gttcacacgg caatggaagc gctttaaacg tataccgacg ttaggtgaaa 120
 acaagtcaac taagagatgg ggtgcttctc aagtaaagac ttccaaagca acggaaagaa 180
 aaagtacggt gtggtattga taggcttgga tggagccgga gcaaccacta tattgtactt 240
 tttaaagctt ggaaagcaaa tgatgacaat gccaaccttg ggatgtaata cggaaactgt 300
 gcagtacgga gatagcgaac tgggtgatatg ggatattgga ggactcgaca aag 353

<210> 3039
 <211> 423
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-059-Q1-E1-G1

 <400> 3039

gacccacgcg tcagcccacg cgtccgcccc cgcgctccgcc cacgcgtccg atttgagaac 60
gagattgact cgttggaaga gaaaccttgg cgggaaaaag gtgccgaact aagtgattat 120
ttcaactatg ggtttacgga agatacttgg agagaatatt gtagaagaca acaaatgatg 180
agactttatt ctcaaagtct gatgccatt cgaactttag actctggcgg tcctttccat 240
aataaccaac ctcatatta tcatcatcat aataataata tggactcatc cggatgaacca 300
agtcgtaagg taccacgagc gacacaaaac agaagataca atcctccgcc tccttataaaa 360
agtaacctga aacttcccaa tgaggcaacc gaagccgtgg actatgcaaa acccaacgaa 420
tac 423

<210> 3040
<211> 430
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-059-Q1-E1-G10
<400> 3040

ccacgcgtca gcggacgcgt gggcggacgc gtgggctctg tgaacgaagg atatagcagt 60
ttatggcaac ctgaaattag ggagctcatc agtcgtttca agacagaagt ttccttgaat 120
ggaaaagaga gaactttacg gtacattggc tcaatggtag ctgatgttca tcgcacactg 180
cttaatggag gaatttttat gtactttgcg catcaacaat ggccaaatgg aaaattaaaa 240
ttactttatg aagcttcgcc tttggcattt attatagagc aggctggagg aaaggcgtca 300
actggtcttg aaagaatatt ggacattact cctacaagtg ttcacgatcg tattcaagtg 360
gtgattgggt cctatgaaga tgtagaattg gttgaacagc ttacananagg accttcaaca 420
agtgatccta 430

<210> 3041
<211> 381
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-059-Q1-E1-G11
<400> 3041

tacccttca gaagatcaag tacgagtctt gctctgctca atatgaagtt caaaagatca 60

agcagcaaca atgtactatg acagtctctg aacaatacat acagcccgat acttgctaca 120
 agtatgtccc tgaacaacaa ttggtgcctc atacttggtta caagtattat tctgtaccca 180
 agttttattga aaagtgtctat cctcagtatg caacaacgga gaaatgtgta gagtatgagt 240
 atgttccata tgccacttct acaccttatt catcggtatc tccaagttat actccttcag 300
 cataacaaac aacttccggc taataaaaaa gccgaaaact ggatagattt ttgaagtgtc 360
 tcgtgttcaa agaaaacatg a 381

<210> 3042
 <211> 423
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-059-Q1-E1-G12
 <400> 3042

agccaacgcg tccggagaga aaaactatct tgcaagcaaa tgaggaaaat attcccaaatt 60
 taataaccaa tcctcgtggt gtgaagttca tagtacgtgg ctatttgcatt tatattcgaa 120
 aagaagggaac cttgtggtat actgagatc cagaggacaa caagaagggtg actaaattgg 180
 atgaaaatcg ttgggtttgc gatgctacag gaaaggagta ttcttattgc aactaccgct 240
 atattttatc cggttctata caagatgcga ctggttcttt gaatgctaatt gcttttgcatt 300
 atgtcgggtc ccgcctaatt ggtcgtccag ccgaagattt agccgctata tatgaacgtg 360
 acaaagcaga atttgatgca ttaattgatg acgttctttt taagccgttc atctttcgaa 420
 tac 423

<210> 3043
 <211> 108
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-059-Q1-E1-G2
 <400> 3043

agggcaaatc caaaaataag ttggcaaaaa aagggtccggg tcccaccccg taccggcaag 60
 aaacttaccg gctttggcac gtaacttttc caaaggccgg ccccccaa 108

<210> 3044
 <211> 383
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-059-Q1-E1-G3

 <400> 3044

 gaccacgcgt caggtataca taaaatacaa acaggcaaaa actgcgtctc aggactcaca 60
 agaggcagta tataaggcaa gaaatttcac gggattacgt ttcaaagaac gagtcctcta 120
 aatgtgggca ggaaagtatc tgaagaacag acttgtaagc accgtacctt tgcataatgt 180
 cccaccgagt gatagaagaa gcaaacagga agataaagaa ctatccatcg aaagaccgga 240
 atctaattga tcttatgctg tccaatccaa gtaacgctga accagtatct gtggaacaag 300
 atttggtata catggcataa cgggtgatat gccaaacaaa gctattgata tctggtagcg 360
 ctcgaaagct atataagtag cgt 383

<210> 3045
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-059-Q1-E1-G6

 <400> 3045

 cgaccacacg tcagcccacg cgtccgcaaa tgtggacttg aatttagcga tgtgttttag 60
 tttttccctt ggttctcgac tctgtttggt acgacaactt gagtagcttt ctctcathtt 120
 gtcaaagcag tcttcttggt cttcttgctg ccagtctttt gttcgcgact agcctgcttg 180
 atttgctttt taaaaagtt acagagtgat gtatccgccc ctatttggtg tgttcccttg 240
 aacaaagaga taggttggtt aaagcaagat aaggaagcgt ttgatggact tgaagaaatt 300
 ttatatgcgg tgcaccgcca cgaaagcgcc ccaaacgaac gtccttgac aagagagatg 360
 gacggtctta acgccaacag ccgaggactc tttgtatagc aagtgcctgt ggcttt 416

<210> 3046
 <211> 407
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-059-Q1-E1-G7

<400> 3046

agcggacgcg tgggcgacg cgtgggcgga cgcgtgggcg gacgcgtggg cggacgcgtg 60
ggttacattg tgggttgtgg agtaagtgcg cttggcaaca aactaaaaga tggaagaaga 120
atcatcggag cttatatgtc tgacgctact gtagcgtctc tatttagtgt gaaaatgttg 180
ttctacctta caatacttgc gttctctatc actattgtgg gtcttatggg taagagttec 240
gacggtattt ggggttcacag tgttccagcg aaatacgaat aatgggtcaat aaaattcttc 300
ccttcaagta aaccaccacg gcataacttc ctattgcaag tatatcatgg ctgtagcagc 360
tattggtttg gttatcagct tcttcgagtt ttggtatgca ttcctcg 407

<210> 3047

<211> 421

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G8

<400> 3047

tcgaccaca cgtacgtgtc atttcaatga ttggtctaaa cagaactcga aagaagtgat 60
ttcttaatac gtatgaattg actcaaaatt tgtctaccga caacttcagg agtataacta 120
gccataataa ttctctttgc ttctagtaca cggaggcgaa ctgtatctct gtccaaaata 180
acttgtcgca ttctcaacct taaatgagag atggaaggaa cggctaaatg taaccctttg 240
taaacttcca tctctgcact gtttccagaa taagtittcaa gacgttctac tctaattgga 300
aaaccggttt tttctccaaa atattccgta tgtccgctcc agttagtagc aatcactggc 360
agttcgtaat atattgcctc catgataaga cgtgccacgc ctccccctca tgttgccaaa 420
a 421

<210> 3048

<211> 357

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G9

<400> 3048

cacgcgtcag cggacgcgtg ggccggacgcg tggggacatg tcgaacgaca atcagtctga 60

taagagcact ttgaaagaag cggaggagaa gctgcagagt gcagttcata ctggaacaga 120
gaaagtttct caggtgttga gcgacgtcaa ggaaactgtg acggagaaat acaaggaatg 180
gacagcacca aaaagtagcc aagaagaagc aaaagaaaaa gcacaagaag cgaaagaaga 240
ggctaataaa gcttttaatg ctatgaaaga aagtgcgagt gccgcttcag aggctgcac 300
agagaaagca gaaaaaatta agcaggagtt gaaggagtga agatacacag tagtttt 357

<210> 3049
<211> 414
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-059-Q1-E1-H1
<400> 3049

agtcaacatt taataatata attgtaaaca taacagatat aaacggtaat actattgctt 60
gggtcttctgc tgggtcaagtt ggatttaaag gagctaaaaa agccacacct tttgcagcac 120
aaaccacggc tgaaaaagca ggtaagcaag caatagaaca tggaatgcgc caaacagaaa 180
taagaataaa tggctctggt tctggtagag agactgctat tagagcttta caagcactgg 240
gtttgaaaat aacaaccatt aaagatataa cacctatacc tcataatggg tgcaggcctc 300
ctaaaagaag acgtgtttta aagaactaga tataatttat gttattttat tatataatta 360
tatgaaaag ttacagattg aatgtctaga atcttttaac canaacccaa caaa 414

<210> 3050
<211> 439
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-059-Q1-E1-H10
<400> 3050

cccacgcgtc agcccacgcg tccgccacaa ggcgccatca tgagcggaga agggacacaa 60
ggacaattgt ttcttgggaa tacaaaacaa gtaattgaga atccgaggca gaataacgat 120
gatcgacca gtgtttatgt caatatgaca gatgacgctg ttagttggct gaagaatact 180
tttcaaggag ttttgaaacc aacaaatcct gttgcttcga acaacagtaa taataataat 240

agcagtggta tggaaactac ccttactgcc aacattgtac agcaaattgt aaagcgactt 300
gctacgatgg agtcggagct tacagagttg cgggtcaaaa atagcgctct tgaaagagaa 360
cgagaaattc ttcttatgga gaatgagagt ttacgcaaag tgttggaaga atggaaaaaa 420
ggtggaagac ctgtatgaa 439

<210> 3051
<211> 339
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-059-Q1-E1-H11
<400> 3051

accacgcgtc agccacgcgt ccgtttcgtc catcgtgcac aacgtccctg gcaaagtcaa 60
gtagaacctg cagcagaaga gcagaaacct acctacgacc ccaagtgtta tctgtgcccc 120
ggaaacagtc gtgcgggtgg gaagcaaaac ccgaaatatg acgaaacttt tgtgtttaca 180
aatgattttg ctgcactgtt accagatata ccctcctttg aacaacaaga tggcgctgat 240
caagatttgt taaaagtaga aggagtcaag ggaacctgta aagttatttg tttttctcct 300
cgacacgact ggactgtagc tgaaatgtcg gtggactct 339

<210> 3052
<211> 391
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-059-Q1-E1-H12
<400> 3052

ccacgcgtaa gccaacgcgt ccgcccacgc gtccgttaaa tactaacttg gttgcttagt 60
aaatttgcac gttatgaaga agctattcaa aaccccagga aggatgttct tttcttaacc 120
aagacttttc aaagtgaagt tcaccgaaag gccatatggc ttcgagaaga cttttgtggc 180
actgcagcta tatctcgtga atttatccga tcagactttg aaagatttgc tgttggagta 240
gatatagatt ctgtagctat agactgggtg ctcaaacaag gtttattgag tcttccgtct 300
ggtagtgata gacttgagct agtagtagca gactgtagag agtatgagga taaaagatcg 360
tatgacgtta tttctgcaa caactatagc t 391

<210> 3053
 <211> 408
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H2

<400> 3053

agattatgga gaataagact gtaaaagaac taaaattcct tgttggtccaa ccaacaactc 60
 tctcaaaaaa ctaaacacaa atagccaaat aactgggtgaa atatctaccc caccactgg 120
 ttgtgctacc tttcgaactg gagcaaggaa aggttccgta accaaacata cccacaccca 180
 cggaactttt agactatact ttttaggata ccaacttaga acaattcgca aaaccatcaa 240
 gatgaccatc actgaacaac tccagttggg gatggttgca acatagccca ccgccgtatg 300
 caccttttgt tcccaatag aagcagcaac tctagctatt gtgcttgctt gagagtcgtc 360
 cccaaagtgg tcgcttttca ttgaccaatt gtacgaaagt ctccactt 408

<210> 3054
 <211> 406
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H3

<400> 3054

agcccacgcg tccgagttag ctcaaaatgt tttaaagac catcgggcat ccattttcac 60
 atttgtgttt gttgaagagc agcatgatga agagcgctat gaagttcttt gtatttagca 120
 ttattttggc aaatgttggt cttactattc aagcagcaac ggttttggag actttggagt 180
 cactgaaata tacagagtat cttgacatgg taaaggctgc aggctggac tcgaagttca 240
 acgactctgc tgttacatgg actgtttttg cagcaaacia tactggagtc aatgccacct 300
 tggcaccaaa gcacttggtt atttctaata tcacatctaa tgcgacggag agcaaagaca 360
 ttgtggaata tactttgtac aaccatactc ttttgtcaga tgatat 406

<210> 3055
 <211> 403
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H4

<400> 3055

cgcggtccggt gactttgata gatatcattc attttgctca tccatccaat agcacaattc 60
tggttatccga tgctcaatat tctgcattcc gggaacaatt aaaagcgatg ggagtgtcga 120
ataatttgag ccacatagga gaaaagaaga aagaaaagaa tactcgattt gttgctgttg 180
gtttgttgca gaactgtaaa gtatttcata cgagaagagg agactgtatg gcaaattttg 240
agttgagaga tgcgactgca gtttgtctag tcacaatgta tccacgagta tatgctcgag 300
tatctcatct tttgatggaa aatgaacact ttgcagttcg tttaaatgtg gagtgggaga 360
ctggaaattc cagtcaattg attgtcaaga acttggtctg act 403

<210> 3056

<211> 353

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H9

<400> 3056

aggtagaaag aacgtgctgt gaagtgagag aacgtacgag aaagccaagt gaggaaaaga 60
aggcaagtag agggcggccc gagaaaggag agggcgtaag acgtgataca gagtaggaag 120
aaaagagaag agagctagaa aggaggtaaa agaagagtaa aaggactaga agaggtagcg 180
aattcacgag gaaggagcgt gaaggaagga ggaatcccaa gtaatcgagg aagaaaaagc 240
ttcggtgaaa gcgtgaacgg attttgtaca cactgcccggt caagttctgg aagtgtgcta 300
ggaataagca ggaaagtatt tgaagaagag agtgtaaagc gcgtaccttt tgc 353

<210> 3057

<211> 336

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-A1

<400> 3057

cccacgcgtc cgggaggtgg ttcaggagat gaaagttacc acgcaaggga acaagaaaag 60
tttttgccta ctgccaacat tgcaagaatt atgaaaaagg cacttccacc aaacgcaaaa 120

atagcaaaag acggcaagga taccgtccag gaatgcgttt cagagtttgt aagttttata 180
acgtcagaag caagcgacaa gtgtcagcgt gagaaacgaa agactataaa cggtgacgat 240
atatttatggg caatgaacac gctgggtttc gacaactatg tagagcctct taaaatctac 300
ttggcaagat atagagaagc tatgtctgca gagaag 336

<210> 3058
<211> 349
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-060-Q1-E1-A3
<400> 3058

gatcacgcgt cagtactttg gctggttctg gtgcattccc gataggttga tgtaacaaa 60
gaagttagct ttggagactc taccagcttc tgttatggaa cttgtggaag acgagtatgt 120
tgcaatcgcg ttattgctac tttttgagca taacagagga gactcatctt tctttaaatc 180
atattttggac atattaccct cacacgacga aatcaacccc ttgttttggg ggtcagatga 240
agatttactg ctgttacaag gcagtcacac tttagctgct tgtcagcaac tgagagaaaa 300
acttgtgaga gagtatacat atctagagaa ccatattatt ccacaaatc 349

<210> 3059
<211> 169
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-060-Q1-E1-A4
<400> 3059

cgcgtcaggg caacattgcc atttcctttt ggagggaaaa cacaagacaa caatgtctcg 60
tcncaagtgt ttctttgata ttgctatcgg tggacaacct gcaggaagga ttgtattcga 120
gttgttctcc gatgtcgttc ctaaaaccgc ggaaaatttc cgtgccctg 169

<210> 3060
<211> 381
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-060-Q1-E1-A6

<400> 3060

agcccacgcg tccggtgctg ctctttggac ttgccgccta tttctctata cagttgtggt 60
agcattttca gcaacaataa ttggacttga tggaaggaag gcagataaca tatggaacga 120
tgccctatat tatcatggaa aagtgggtgaa cttttgtgca tttcgggtt cgtctgtttt 180
tgaaggtggc gaccatggcg catgtaaata tgtgatggct ttggcttcta tcagcttgat 240
tttagttttc tttctttggt tggcctcctt tgtcgacgca ttgtatccaa ttcttataaa 300
gttctgggtt gtggagcttg gtatcaacat attccttact atgtggtggt tggttggtgc 360
aattgtggtg actgcaaagc g 381

<210> 3061

<211> 372

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-A7

<400> 3061

agcgctacat aaaggagcac caagataata atgacacaag tgaaaacacg tcgaccgaga 60
aaaccacttc cagcaacgat aagatagcac ttgaagttga gaagacagaa tattgggatac 120
aactctacaa aaacaacagg aacaaagagg aaccaaagga accagcatca gaaaatatga 180
aaggaagtgc gtcacaacaa ggttccaagt caaatgttgg ttatcctttg gaagaccac 240
aggcagtcca acaggaagag gagacgccgc aagttgttga cgacaatgag acaaactctc 300
ctcatgcaat tctacttgaa gctagcaaac tgcaagcaaa atatggagat tgtgataatc 360
ttccaaacca ag 372

<210> 3062

<211> 406

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B11

<400> 3062

ccacgcgtac ggattccctt ggcagcgatg aatcaagttg caaagatttt agagatgccc 60
ccgataagag tctatgagat tgtaacattc tattccatgt tctatcgtga acctataggc 120

aagttcaatg tacaagtttg ctgtacgact ccttgcatga tacgcggtgc gtatgatatt 180
 ctctgtgcca tacaggacaa gttcaatctt gaacccgggg gaaacagtcc agatatgatg 240
 tttcatcttg aagaagtgga atgcttagga gcttgtgtga atgcgccaat gatgcaagtg 300
 aatgatgact actatgaaga cttgactggt gaaagcgcca ttcgagtatt ggaaaatctg 360
 cgtgataaca agcctgtgaa agtcggtcct cagaacggtc gtcac 406

<210> 3063
 <211> 360
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-060-Q1-E1-B2
 <400> 3063

agcccacgcg tccgcggacg cgtgggcaac aagcggcggg ctcaaagggg gacaaaagtg 60
 gaggcgggct ctccgatgct ctgatgaatg gcaacttttc ctttatctct ttgggataac 120
 ttctgtcggt ggactttgtc cgaatatttg actgggggtt atagaatatg acctttcgat 180
 attttctcca tgcattgtaca acatgtgtac ataaatatac caactttgtt tgaaaacatc 240
 tttatggacc agtaactgtt ggaatgcctc tcccatcaaa agactaggac ttggtccaag 300
 caatgattgt gggagaaata ttgtttccat tagttgcttg ggcttcagta tagttggtgg 360

<210> 3064
 <211> 353
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-060-Q1-E1-B3
 <400> 3064

ggctgaggca cgcgtcagcc cacacgtccg attcatcggt tcgtcttggg ttgacaaaga 60
 agactggaag ttttttcggt gtggaagaag acatattttg tttgaaccag ttggaaaagt 120
 atgtttgaca gatattattg atcgactcat tgtgtcgtag ctttcatgct ctctgtggcaa 180
 acttttacgt gtacgtaata agaacactcg tcagttttca actttgagtg tggaagagga 240
 gcagcgcttt gtgagggaaat tttttggcgc tattttgggt ctttcttatt tgccacaaac 300
 aaaagttgtg tctgtttcgg cagagtttct tcataagctt tcccagtcgc tct 353

<210> 3065
 <211> 368
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B4

<400> 3065

aggaggtata cctagtgaag tatggggacg attacgtaca cctgttttag gaattgaaga 60
 ggctgaagat tccatcgaaa ttgctcgaaa acacgccaaa ttggaccctt ttcttgactc 120
 ttatgtgaaa tacagatggt gctctctttc cgagttgggc tccgaacgaa agcaatttga 180
 ctgtgtaact tgtctggaag tagtggaaca tgtggaaaaa cctcagcagt ttctcaactt 240
 gttggaggca attgttcgac cacaaggttt gctcattatc tccacgatta agcgcacggg 300
 cacttcttgg ctaactgcga tatgcttggc ggaaaacgta cttgggtgga taacgcgtgg 360
 aacgcac 368

<210> 3066
 <211> 365
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B5

<400> 3066

agccccacgcg tccgcccacg cgtccgggtc tttcaggctc gcttagaaag tgtttgcgtc 60
 caaagagaca aagtttttga acaattggcc aaagtctgag agttgagaag aaatcttggc 120
 gtccttcttt caaaagcacc ttctcacgta caggtaaaca ttggctgtga cttttatctt 180
 gacggcgagt tggatgacga aggtctttta cttattgaca tgggaaagaa cgtctttgtg 240
 gaaatgcaac caaaagaagc tctagagact acaatactga gagaaacttg gctggagagg 300
 ctcggtgaat attatacgaa aaggtggaaa gattgagtta agctcgttgg attgctctac 360
 tgact 365

<210> 3067
 <211> 379
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B6

<400> 3067

cccacgcgtc cgcccacgcg tccgcccacg cgtccgaaag cagttgagca cagcaatatc 60
gatatgtcaa gtggctggaa taactacagt ggaacggaag gtaatgggaa tgctgggtgct 120
ggtcaaggga agaacaagga taagaagact agtggagaac ttgcaaaaga tagtttaaag 180
ggtttgggaa tggcagcctt gtcagcgggt aagctggttt atcgcggtgg caagtgggtgt 240
gtggataagg tggaaggcgc cattgacgac cacaagtcaa aaggaagtaa gagtggccgt 300
ggtggaaatt cacgttattc tcgttgaaac gtaataacgt ggatagaaac agaacgagac 360
ggttttttat atttgttgt 379

<210> 3068

<211> 97

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B7

<400> 3068

agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gcagaagaac 60
aatagagata taaaattaaa tacacgaaca agggagg 97

<210> 3069

<211> 352

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B8

<400> 3069

agcgtagaac aatatgttga tacctaaaaa gaaccgaaac gcagtttatt cttttatttt 60
atcgagtgga gtaattgtgg tgaagaagga cactcatgcc aaaaaacact tgcagcttga 120
cgttccta atctgaagtta tgaagatatg tcagagtctt acttcgctgg gatattttaa 180
ggaacagttc agttgggggtt acttttatta tactctgact gacaacggaa tcgattactt 240
acgtcgatat ttgaatcttc ctgtggaaat agtcccggaa actctaaaga agcctactag 300
acccccaggt gttcgccctt cgtcgtttcc atcagaaggt caagaaaaga ga 352

<210> 3070
 <211> 395
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-060-Q1-E1-C12
 <400> 3070

 agcacacgcg tccgggttat cgtgtggaag atagcgatcat tttattcgat ggagagtgtgta 60
 acttgtgttaa cggatctgtgta aactttgtcc tcgaccacga ccgacaaggc atattcaagt 120
 ttgcagcggtt acaaagtcct gttggattgg cactgttgaa aaagtatcgc ggaccacag 180
 acctttcgtc gctggttctc attgaaaaag gtcgaatgct tctgaaatcc gatgccgtac 240
 tacgaattgc agagttgttg gacaatcaga cccttcgtat tttggcagtt gcaaccagag 300
 tgggttttcc gaggtggttg agagattggg tatatacaga aattatatcc aaatatcgac 360
 gtcaaatatt tggagagacc gatgtttgtc gtctg 395

<210> 3071
 <211> 371
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-060-Q1-E1-C6
 <400> 3071

 agaggaacct tgtttgggag atttccagat gatatttatg atggctatac tagtaacgtt 60
 ccaggaaatc cgtggattct atgtacttta ggaatggcgc aatattatta tgagttggca 120
 gcagagtggg tgaacatga aaagattgtc ataggaaagt ggagcaaaga ctttttcaga 180
 catttgaggg ttatgcctcc tctcctcct cctcctcctc aatcttctat atcaacgacc 240
 attactggaa aagctatttg tagttatgtt tctgcgctat tagaagaagg agatcgcgta 300
 ttgaatgcta ttcgaaagca tacagttcct agtggtatgt ttacagagga gattgatcga 360
 tatactgggtt t 371

<210> 3072
 <211> 361
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-C7

<400> 3072

gagccattgg ggcgacaaca ctttggtgca gtgttgccag tgtcagtaga agaaacataa 60
caagtccaaa ctttttggac tctactttga tttctatcta gactggcaat gtaaataagaa 120
ctgagagtgt caagttaccc ctttttgctg gtagagagta acaatggggg tgcggttacga 180
agacggcttg tctacgcagt cgtcgacaca agaaaaaaag acagaccagg tcagaagacc 240
gaatgtgact cgataaagag taaacaagcg tagttcttgt aacggagcaa ccgctgattc 300
ctcttctaca tagccagctg gttgtgtcaa cgtctcctgc gtaggttggc tacggtataa 360
c 361

<210> 3073

<211> 147

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-C8

<400> 3073

gaaagttttc tacaatatcg atttcgtttg gtaaacaatgt ggtttccttc cacagcactc 60
gcatgtgaag atagatatat gctgactagg gttcgagcat ttgcatatta gatgaagtcc 120
tgagcattgg gatgtaagct atacggtt 147

<210> 3074

<211> 159

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-D2

<400> 3074

cccacacgtc cgagaagggtg ttgcacggct gtcgaaagaa cgtgctgtga agtgagagaa 60
cgtacgagaa agccaagtga ggaaaagaag gcaagtagag ggcggcccca gaaaggagaa 120
ggcgtaagac gtgatacaga gtaggaagaa cagagaaga 159

<210> 3075

<211> 253

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-060-Q1-E1-D6
 <400> 3075
 gcaagaagag aagagagcta gaaaggaggt aaaagaagag taaaaggact agaagaggta 60
 cggaattcac gaggaaggag cgagaggaaa gaggtgtatg atgcaagcaa agaagtgacg 120
 cagtagatca gagagtaaca catgcaagta cgtaaagcga accggtgaat aaagagggtg 180
 gaaagagtgg aagaacatga aagcacagaa gaatgtaaga aatgggttaga gtaaaaacca 240
 taaaggaagt aaa 253

<210> 3076
 <211> 387
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-060-Q1-E1-D7
 <400> 3076
 agccccacgcg tccggtggct tagaagaggt caaggtggaa ctgcaagaaa ccgtacaata 60
 tcctgtagag catccagaga agtttgaaaa gtttggtatg cagccttcaa aaggtgtctt 120
 gttctacgga cctccaggat gtggaaagac ttacttgcc aaagcaattg cgaacgaatg 180
 tcaagccaat ttcatttcta tcaaaggacc tgaactgttg accatgtggt ttggtgagtc 240
 agagcacaac gttcgtgaag ttttcgacaa ggcacgacaa gctgcgccat gtattctcgt 300
 cttcgatgag ttggactcta ttgcgagatc tcgagatct tctgcangag atgccggtgg 360
 tgcaggcgac agagttatca atcaaat 387

<210> 3077
 <211> 421
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-060-Q1-E1-D8
 <400> 3077
 agcgagttga aagagactag tgaagctggt atcttttact tgaaatcttt attggatatt 60

tgtgcacaga ctgaagaaaa cgtcctttca aaagatgac tttgttcggt gaaggaggct 120
 tctcgtaact ttattgaatc gaaacaaaaa gctcgtttac atagtgaagc taatagaaac 180
 tgtcataaag tggctgtaac tggaagctgg agaagagaag aggctccatc gaaccacagt 240
 gtgttcgata cagcttacga aagtatagtc agtaatctac gagatgaagc tagcgccgac 300
 caaagtgaag aattcaagag gcttttaag tccatagaga catttgaaga aggagaagta 360
 gtttctcag ttcttgcaac cgatgagaaa cagtttatnt tgcccctttc aaaaagcta 420
 c 421

<210> 3078
 <211> 394
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-060-Q1-E1-D9
 <400> 3078

agcacacgcg tccggaaga ggtcgaacca gtcgtgaaac acttgagct gtccgtggaa 60
 actttcggaa gcaatacacg tcgtttggcc tcttgctttt tctccattct gaggagacta 120
 tacaaggctc cctctcaagt tgcagattcc ttttggcagt cgccacatca ccaaactact 180
 tccccttctt cttcatctgc acatggggaa cagtcgtgga gttctataag ttcttctgta 240
 caggatatgc cgatatctag aaggtttata ggatatatgt tgcaagtaac gactctgttt 300
 atggccttgc tcattagttg tttccgtata gttggctatt ttctggggaa tatgaaaaca 360
 gaaacgatat acgttttcaa cagagtgaat gctc 394

<210> 3079
 <211> 206
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-060-Q1-E1-E10
 <400> 3079

tcccggctgc cccacgcgt acgaatttaa gaattcattc cagaaaactt aacttgggaa 60
 gtgaaattga ctacgaagca gtaatcaatc ctgcaaaaag gttaaatgga aaaaattgc 120
 caaataattg gacaaaggcg gggttggttg cccctcctgg aaatagagac aaagtgaagc 180

atgaagacat tatgaacgcg aattcc

206

<210> 3080
<211> 380
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-E11

<400> 3080

agaatgtgcg gcctgccaaa tagtagagaa gaaatcgatg aaagtgaag cgagtaaaag 60
atgaggata gagaatggcg gtcctaactg taaggatcca aaggtagcga agtaaataga 120
cgtttgaaag gcgtccagta tgaaaggaga aacgagtgtg gcactgtcta gtcgtccaac 180
tcagcgaaac agcaataact gtgaaaatgc agtaaactag cagtaggacg gaaagaaccc 240
ataattcttg actagatagg tttagagagg aaagaggtgt atgatgcaag caaagaagtg 300
acgcagtaga tcagagagta acacatgcaa gtaggtaaag cgaacgggtg agtaaagagg 360
tgtgaaagag tggaagaaca 380

<210> 3081
<211> 390
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-060-Q1-E1-E12

<400> 3081

acggaccta ctgtagttcg ggtaactgtc tttcgtcagt ctttacgtga acaaagcccc 60
tctttttgta gaaactaagg ctttacgtca taaaacccat acattagtgt tcttgtggca 120
cacttgcca gatttggtga ataataacca aactttgtcg cggtcggcag aaaatgacca 180
aggcggcagc ttccaccagt gtaaagcaac tggttccaaa aaactcggac gataagaatc 240
gaccgaataa agtgccttct aatcaaataa ggtctcgttc aactataaac cgtctaagac 300
tttatcgga aaaagcatat caatataata agcatggaaa acgtgtatca ggagcangag 360
attatactag taacatccca cagcctggtg 390

<210> 3082

<211> 352
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-060-Q1-E1-E5

<400> 3082

agcggacgcg tgggacgcg cgtgggacgcg cgcgtggggt gactacagaa aagaaagcaa 60
 tgtgcagcgc ttctcaatca cttgaatggt ggcaattggt aaaggaaaat gtagaccctt 120
 gcacaccaac agataaacca aggacaagtt ctaaaaagga caagacaacg cttcctaggc 180
 gaactccatt gtcggatatt acagagttgg tggtaggttc caacaagaaa taccaagata 240
 atacgcaaca acaaccacaa ccacctacaa gtttttaccg accattgccca ccanaatata 300
 aagagaaacg actcttgtct cttcgataag accatggatg aaaatgtgaa ta 352

<210> 3083
 <211> 396
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-060-Q1-E1-E7

<400> 3083

gtggttggtg gtggatggga atgtaggaa gcctctgggtc atgggcaact ctatcggtc 60
 tacctactcg gatgacatca acttgccaag aagaagaagc agttcaggac agtctatagc 120
 caccactagg gaatcctttt cccgtaccag caacagttct agaggcagcg cggttggttga 180
 cccaagaaca atggttccac gaagacaaag aagaaggatt actgctcgaa gaaatgacgc 240
 agtactcttg tctcttagtc gacttatagt ggaaactggg aggcgcgcgg attgggtaga 300
 tgtgagcyag tcgtgggatg aaaagaaagt ggaaaccttg gtggacgcca tgcttttggc 360
 gccaaagacag caggggcttg acgaaacttg tggaga 396

<210> 3084
 <211> 275
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-060-Q1-E1-E8

<400> 3084

gttttcttgg tagcagttgt acattcaaca tcatcaaatg ccaaagggag gaaagaaaga 60
 ttcttcaaag aaagaagcca caagtaaacc tgcagcagca gatgctacaa agacgacaga 120
 aaagtctggt ccggaagcca agttgaaggg aactgggtgca aagaaacaat aaaaagttga 180
 ctatgcatgt gcagtcctgt tatgttttgt gagttctgtt tgatagtttc cagctattct 240
 tttggtagtg aataaagaga aaatttttta tattt 275

<210> 3085
 <211> 371
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-060-Q1-E1-F10
 <400> 3085

acgcgtcagc aaacgttatc ttactccagt gattgggtgg tttatgggta ttcttatttt 60
 gaatgcaatg tttttaggtt cattggctcc actgaatagc tgtgcacgac tcatatttgc 120
 ttttgcaaga gagggctcta tatttccaaa gatattcgcg acggtggata tgaaacaaaa 180
 tcctatagta tccaccgctg tagttgcttt tcttgctgcc atcgtgtctc tcattgcagg 240
 tttggcgatg ggaacatata atggctttgt tatgttggtg acaacatcat cgctttctct 300
 ttatgtgggt catattattg ccaatcttac tttgggtatt ttctatcatc gtcaaaagca 360
 gctcaactgg a 371

<210> 3086
 <211> 418
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-060-Q1-E1-F2
 <400> 3086

agccccacag tccgccccag cgtccgcccc cgcgccgat cgatttgtac gacgactcca 60
 gcgccagcca aggcaacca caacttgtct tgtgtatcgc aacacattcc atcaaaaaca 120
 aagaattcat tacttgtctt tttatccaat ccaacaactt tccgctctct ttccttgtct 180
 atttctcttg tatgaatatc ataaggatag caaagaatct catactttcc agaatcgatg 240
 tagaaaagat gttgcgaatc actcaaccaa gtaagaccat tgctacaaca tattccccga 300

aatatttgtc gcgatgttat cttacccaaa gatttcctct tgggtgcttac gcgtttccca 360
gtgtcatcct tgcggtgtcc ttgagaactc ctgaaggaat aaaactttcc tgtgcttc 418

<210> 3087
<211> 357
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-060-Q1-E1-F4

<400> 3087

aagtattgca agctgtcgaa agaacgtgct gtgaagtgag agaacgtacg agaaagccaa 60
gtgaggaaaa gaaggcaagt agagggcggc ccgagaaagg agagggcgta agacgtgata 120
cagagtagga agaaaagaga agagagctag aaaggaggta aaagaagagt aaaaggacta 180
gaagaggtac ggaattcacg aggaaggagc gtgaangaag gaggaatccc aagtaatcga 240
ggaagaaaaa gcttcggtga aagcgtgaac ggattttgta cacactgccc gtcaagttct 300
ggaactgtgc taggaataag cangagaagt agaagagagt acgaaaagaa gaaagga 357

<210> 3088
<211> 403
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-F5

<400> 3088

agcgattcca agacggcgca gtaatcttgt tctccacggt agctcgctc gacagaaaaa 60
gacatgttga gctggctaca aaaaaaccac ttgctagttg caatattaca agtgtcaaga 120
atgtttactc tttatcgagt cacagtgcgt cttttcccct aatcttctt tttcgggtgc 180
gacgagtgcg tagacatgct gtcttggtta cgcaaccctc tattgacact ctaggtttcc 240
tgtgcagcgt cgaactacct aaaacgcaaa gcagcaaagt cccaaagttt cgactctttt 300
tgttttctcc actagccata ttgaacaaaa gtgttttgca ccacttgcca cgacaacgaa 360
tggttcactc tcgtgtgttt tctcttgaca aaactcgaag act 403

<210> 3089

<211> 309
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-060-Q1-E1-F6

 <400> 3089

 agatctctcc ttctcaccca actagtagaa gaatatgttg gcgtttactt gtctcccaga 60
 ctgtcggttg ttagagactt ctcgattctc cagatgtgcc aaagccaaga ccgtctcggt 120
 gcgacgtagt tcccagtgtt cacactcttg gaagagtgtt tcgatgaact acagtcacct 180
 ttcgataact accgacaagt cagaaggaca tattgtcccc ggtacttttt caagatttga 240
 gtttcctgaa gggccaatca acgggtccaaa cgtcctgaac cctaacatac ctgaccttac 300
 agtgtccaa 309

<210> 3090
 <211> 356
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-060-Q1-E1-F7

 <400> 3090

 cccacgcgtc cggtttttgg ttactgaag atgcaaaata acaaagacga tttttcctta 60
 gcaggctttc tttccacacc aaaagttgca gcagaagatt ggtcagacac gtatatgggg 120
 gactttacga gagagggcgt caaggacagc ttccgacacc tttttttgcc aaacaactct 180
 ccaggccttg acccgttttt gacgaaagaa aactcagtat ttggctcacc tacagaacct 240
 cagttagtgc ctgagtgggt tccttttcag gacagttctt cggagaccaa cgtaaattgg 300
 gtcaatttga acagctcccc tgttcaaagt aacgatacga cttgttccgt ttcaag 356

<210> 3091
 <211> 342
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-060-Q1-E1-G1

 <400> 3091

agccccgcg tccggagaat gcttgcgag gaagacaaat ctgcgtatga agctcgcttt 60

tcacaatata tcaaagctgg ggtcggacct gatgacttgg aggagatgta taaacaagca 120
cacgagcgta ttcgagcaga tccttccttt gagaagaaac caaagcgtga agtaacgaag 180
catcgagctt ttcgtcagag aaaactcact aaagaacgtg ctgtgaagtg agagaacgta 240
cgagaaagcc aagtgaggaa aagaaggcaa gtagagggcg gcccgagaaa ggagagggcg 300
taagacgtga tacagagtac gaagaaaaga gaagagagct ag 342

<210> 3092
<211> 354
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-G5

<400> 3092

aggatgaatgc agggattcct atgaaggatt tgatcatttc atgttcatct ggatacatgg 60
agaataccac agtgatggac ttgaataatg tatacacact ggtgaggggt cctcaactta 120
cgttggccat ctaagcacat tctggaacac tggcattggc tcattgggaa tcgaaagctg 180
cttttgaaag ttttgagcac ttaattgcag ttgctaaaga gggatgtcta catatattgg 240
atgtcatcca ttccaatagt gagcaataat ctattgcgac tgattgcttc tcgcgatact 300
atttcaataa agtgatccta ctcttaatca tcatcatcat gactatcctg tgat 354

<210> 3093
<211> 350
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-G7

<400> 3093

cgccaatctc gactgtatag cagaagaggc tttcctttta gtggtatgtc cgttgtagag 60
tccttatcgg actgaggaag gaatagcgtt tgggcacata taaagggttt tcgcaagtgt 120
tagcttgga gtagatttgt aaactggcaa acggaatgat tcaccacttt cttataacct 180
cttcaagtgg tttggttttg tattccacag agtttacgac tactcttgca caaccacgct 240
tagttgggtc actgctaaca gcacttggtg aattttcaaa gaaaaatgtc tctctgcctg 300
tttcatatat tgaacttgag aaagtcgccg tggcggtttc tgtcagttag 350

<210> 3094
 <211> 360
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-060-Q1-E1-G8

 <400> 3094

aggacgtcgt cgactcatgg cacctaagaa gacttcgaaa gtagcacctc ctcctgaagc 60
 tctgggttaaa aaagaaaaaa aggagaaaaa gaaagagaaa aaccctcttt tcgaaagcag 120
 acccaagaac tttgggtattg gtggagatgt acaaccaaag agagatgtct ctcgttttgt 180
 tcgttatccc agatatgttc gtcttcaaag acaacgaaag gttctcatgt cgagactcaa 240
 ggtgccacct gcgatccacc agtttacgca taccttggat aaaaacgttt ccaaacagct 300
 attccgcttg ttaatgaaat atagaccaga gtcgagggtg gaaaagagaa agcgcctacg 360

<210> 3095
 <211> 382
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-060-Q1-E1-H1

 <400> 3095

atcggatact ctaacctcga tggtttatca ettcgactcg gtatgctgct ctggatactc 60
 gttgatgaat attgtaaact atttcctggg aattttgtat tcaaattctg tgctcgctca 120
 tccttgtttt cttgaacagg tcgagaactt gtaacgggtc cataagaaat ggaatccaac 180
 ttgctcatga aattgtcttt ccatttctcg ctcgtagaat tttcagtact tgccaaagaa 240
 gcctttgtct cggaaactga atgctccttt cctgatacat tttcaaataa aacctcttcc 300
 ttcttggaag taatcggtgt ttctaataat gtattcaaag atgtattcca tgctcgtagaa 360
 gactgctttn caacaaaaga ca 382

<210> 3096
 <211> 206
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-060-Q1-E1-H10

<400> 3096

ccacgcgtac gaaagaaatc cgaaaggagt agaagaaaag agagagaaga aagaaaagaa 60
gagaaaagcc gtactgaaga cgcacacagg tactcgagga gaaagatatt aggtggagtg 120
tcctaggtga cgtggaagga attgttgttt tgattttgtt tgtgtgtatt caatgtataa 180
gcaagcaata aatagttttt tcctac 206

<210> 3097

<211> 325

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-H3

<400> 3097

cgcgtcagct caaacgtccg gttgggcctt ctggtggaga tgccctggat tgagctacgt 60
agtggcaact ccgctgtctt gagagacata actgcaagta ctgaaaaccc tgacataaag 120
gggagaacga cgacgaatct cagtacctgt ctgaattctg cacaaggaaa tgttacggtt 180
gacttgtccc tgcagtgtac cttgacggat aaattttcat tgaagcttct cgacaatcac 240
tttaaattgg cgtgttttac tgataccttg tttttagttt taccatgctt atcctttgtt 300
attactggta atcgtatagt ctgta 325

<210> 3098

<211> 377

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-060-Q1-E1-H4

<400> 3098

tcacctgagt ttgtatgaaa aatgacggaa agcgacaagt cagtgcttgt tgcctctca 60
gggccatctg gagctgggaa aagtagtatc atacaaaagc tgaacaaaga ttacctgat 120
cgaataggat ttagcgtaag tcacacaaca agaccaccgc gaccgngnga acaaaacgga 180
gtagaatact attttgtttc cgaggaaaaa ttttaaaaaa tgatagagaa tagtgaattt 240
atagaatatg cgaatgttca tggaaattat tacggaacac gttttcaagc agtagagagt 300

gtttctcaata gangaaggct gtgtgtgctg gacgtagacg ttcaaggatg ccgttccatt 360
cgtcggagaa acatgaa 377

<210> 3099
<211> 404
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-060-Q1-E1-H5

<400> 3099

cccacgcgtc cgatcgacga tgacatttct caccaaaaaa gatgtggaac attgtttcga 60
tgtgatatgg tttagcatat ttgatatcca atattcttgt ttatgttctt tgaatgcctt 120
gaaccagatg tgtcgaacct acagcgtgct tgtgccggct ggcgatgact ttgaatttcc 180
aaactctcct tgcttaagtg actgggatct cgttcatttt gtttcccata gcaacgaacc 240
tgtatttcgt gtatttcaca agtgcacat gtgctgcttt ttagaacana gaatagttgt 300
ctttcgggat ggcctttgta tactgaaaaa ttccaacagc tggttgttgt tggatgcttt 360
gcgtgatatc aaaaaacatg aaaaggacaa agaaaacccg ttct 404

<210> 3100
<211> 367
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-H6

<400> 3100

aggagaaagt caaccagatg aaaacagaac gtggctttgc tcttacggat atattgcgtg 60
aaatacataa aagaatattg acaaggaata tggcagtcg agcgaagaca tatttattgg 120
agaaatttgc tgaaatagaa catcatcttg cttttggctg ttctgaaaaa ctccagcttt 180
gttctttgat tgggtgcttt caaatcatga aggcgttgga agtgttgga gctcaagttg 240
gaagttagta ttccatgtaa gaacattata ctatagggac gaaggattca tctatataaa 300
tattgcaaaa ggacacaaag caatctcttt gtgctcgaga aacatatata tacatacttc 360
ctgtgta 367

<210> 3101
 <211> 352
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-060-Q1-E1-H7

 <400> 3101

 gacactatct gccatggttg gtgagttcat cgcattgttt acatctgcaa gatgtccttg 60
 ttgtcatttt tggcgtttgt ctgactttcc aacattggac actttgcaag acgtgtgctg 120
 tcatttacca gcctccttgc gatatagttt acgtcaggta tcataaacag gcataacacc 180
 tgatattgcg taccaactcc acgtctcccc atgaatctgg tcccagcggt ttagatgcct 240
 cagtcacaat agtcatagcc atagactcga cggttgctatg tacaaggctg gttttccaag 300
 gaacttgagt catgtgtccc ataattagat ctcgtcacac tcgactcgct tg 352

<210> 3102
 <211> 140
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-060-Q1-E1-H8

 <400> 3102

 cgatccacgc gtcagctcac gcgtccgccc acgcgtccgc ccacgcgtcc gaaataaata 60
 gaaaaaatc aatggaaatc atataaagaa aaaaaaaga gggtaaaaaa ttcaaagggt 120
 taaagggttt gatgcagtaa 140

<210> 3103
 <211> 129
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-060-Q1-E1-H9

 <400> 3103

 ccacgcgttc cggaaatagg acagctcaat agcagattgg ataaggagtt aatgatgagt 60
 atacagttat gatacttaac ggtagtgtat acgaaatatg gatgtattaa ccgagtatat 120
 taaggaaat 129

<210> 3104
 <211> 422
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-061-Q1-E1-A1

 <400> 3104

aggaaagaat gagtaagaaa aaagggagtc attccaccag gggagtaaag gcgcaagaaa 60
 gaaacccaaa gcaattgacg ggaatcggaa aaaggggtgg atcacgtgga ttaggccgat 120
 aaaccgagaa ccttacctct ccaagaaggt gttgcacggc tgtcgaaaga acgtgctgtg 180
 aagtgagaga acgtacgaga aagccaagtg aggaaaagaa ggcaagtaga gggcggcccg 240
 agaaaggaga gggcgtaaga cgtgatacag agtacgaaga aaagagaaga gagctagaaa 300
 ggaggtaaaa gaagagtaaa aggactagaa gaggtaccga attcaccacg aanganctg 360
 aaggaaggag gaatcccagg taatcgagga agaaaaagct tcggtgaaag cgtgaacgga 420
 tt 422

<210> 3105
 <211> 338
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-061-Q1-E1-A10

 <400> 3105

aatgtccggc tcgaccaca cgtacgcca cgcgtccgct tccttatatt ctttgtgctt 60
 ggacaatggt tgcaaagact gctctgagtt gcctctttct ctctttcctt atcgctgccg 120
 cagttgcagc cgacgtgggt tcacatgaga gatggggata tgctcagcan acccaacaac 180
 agcaacagt ccaacaagta tgtaaacagt atgcatacta tcagagtcca gtctgcactt 240
 ccgtaaccac acagagccca tactggaacc aatgctcgaa gactgtgcaa accttttgtc 300
 ccaagccagt gcagtactta tacccaatct cctacatg 338

<210> 3106
 <211> 397
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-A2

<400> 3106

acggtcgttg atctccaaca accgcagcca tcatgaaaat actttttattc gactcgggttc 60
ttctttctcca gtaactcagt tgcaaataaa gaaaagtgga ataagaccgt cgtgtggaga 120
acggatggcc tcaaacaagt tgtggccttc ctgaactaga caaggcttta ggaggtggta 180
ttcccataag ctccctgttt atattgttgg aagacgaacc taccactatc taccagtaag 240
tattgccctt ctgctgcaat gtattccaat aaaatatatc aagatctagt ttagatgtaa 300
aatgaaaaa gaacagtaag aagagaaata caggtcacga attcatgacg aaagcacctt 360
gaaggaagga agaatcccaa cttgcccagg aataaaaa 397

<210> 3107

<211> 428

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-A3

<400> 3107

atccaggcgt caggggggtcg gaagagaagg cagaacgtca ggaccggaaa cgcttgctta 60
atagagtttc ggcgaagaga gttaaagaac gtttgaaga agagtgcaga aatttgggag 120
acgggggttc aagagacgag aatctcctta aagacctgga ggaggagaaa aagtcactgt 180
tgccgtacat tcagagactc gaggaagact tgcgggtgcct aggagagggga gctttttctt 240
tgttgagaga tgaagcacat tagaaacacg tagaggtggg agagttggaa ttgttcgggt 300
tccatgtaat ccgtaagagc gttctggaaa aggtgtcttc tgaagaatag atacctacga 360
aacctgtata ggtcgtccac aacggaactt cgggttcaaa agaataaata gtatttttat 420
tgtaaaaa 428

<210> 3108

<211> 421

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-A5

<400> 3108

ttcccggctc aacgcacgcc tcagcccacg cgtccggcac aacagtagca actattcgaa 60
 aacaacagta tgttcagaag aagaatatgt agatatattg aacaaagtta tcgtcgatag 120
 cgactgggggt gaccttccaa aattgagaag gaaactagct tcgttggagg aaagggaaca 180
 accaacaacc acgccaaggg agacaagagg acaaacaggt gactggctca ctcaaagcgt 240
 gccatcgaca tggagtactc cacaaagtgt gaatagtaac tatagaacag tggatgacaa 300
 aacggaaaaa gtatctaaag ggaacaaccg gcctttggaa aatttttttc ggaaatatta 360
 caccgaaaaa caactattcc tttgaggtgt tggtaagaca ggaagaaaaa gataagagaa 420
 g 421

<210> 3109
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-061-Q1-E1-A7
 <400> 3109

cccacgcgta cgcggacgcg tgggcttata ttctttgtgc ttggacaatg gttgcaaaga 60
 ctgctctgag ttgcctcttt ctctctttcc ttatcgctgc cgcagttgca gccgaggtag 120
 ttgtcagagg agagatgggg atatgctcag caaacccaac aacagcaaca gtgccaacaa 180
 gtatgtaaac agtatgcata ctatcagagt ccagtctgca cttccgtaac cacacagagc 240
 ccatactgga cccaatgctc gaagactgtg caaacctttg tccaagcca gtgcagtact 300
 tataccaat ctctacatg gacctattgc agcacctaca ccaccactag cgtaccatct 360
 caatgcagca aaggcgggta ctacttatac tcaaactgc tgtgcttatg cccaac 416

<210> 3110
 <211> 405
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-061-Q1-E1-A9
 <400> 3110

cggctcgacc cacacgtacg aaatgactct gtatgggtcta cttctacagc ttctcaagct 60
 ctgagtgtctc ttccaaccag tgcaccaact ggagcctcat ctagtagcag tagtagtgca 120

gtatgggtcc ggagacgtgt cattcttggg gcaacattca atcagtcgat atccctttca 180
 tcgctttcca ctggatccca taattttaca tcattagtat gattgaattt gaccatcacc 240
 aagaattcgt caggtacatt tgtaggctct ttcgagtg taaaacctga tgtcgctgtt 300
 ggctcctcct ttatcgatgt gattgatgga gttcttggtc caccaccacc aacttcgcgc 360
 acaagtgtc caactgctgt aacttctgct cccatcacta cagtt 405

<210> 3111
 <211> 424
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-B1

<400> 3111

tccaggcgtc aggcttgagg tgtggcttgg tttttagctg cgtggttaact tgtgtagctc 60
 tttaggtaac aataatgcag atattcgtaa agactcttac tgggaagacc attacgcttg 120
 aggtggagcc ctcagatact attgagaatg tcaagtcgaa gatacaagac aaggaaggta 180
 ttccccaga ccagcaacgt ttgatttttg caggtaaaca gttggaagat ggtcgcactc 240
 tctcagacta caacattcaa aaggagtcta ctctccactt ggtcttacgt ctgaggggtg 300
 gaatgcaaat attcgtgaag actcttactg ggaagaccat tactcttgaa gtggagccct 360
 cagacactaa tgaaaatgtc aagtccaaga tacaggacaa ggaaggtatt cccccagacc 420
 aaca 424

<210> 3112
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-B2

<400> 3112

ggagggcacc gatttgtgtc tccacactta cctgtttatt gttgctttat tttgatcctt 60
 tctactgaaga agacttcact ttacgtcaat gtctttctgt ttttttcctt gggttcgcag 120
 tttcttttct cgacaacgtt ttggttatag agaagtgttt cttagtggtc atcaacacta 180
 ttttggtatgc acctccttcc aagtcgctta gtgaggcttc tgtcggtcaa gttgcagagt 240

atcttctcta cttgacaaac gcttctatct cctatcatag aaataaagag tccagcgatg 300
 tttatgaaca ggtgggtcat gttcatgaga gaatttggtg ccgtcttcct catgctatta 360
 tagacgatcc ggatggaaaa aagtcgag agttttaaag attctgaact tcc 413

<210> 3113
 <211> 423
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-B3

<400> 3113

caggcgtaag cgtttattag aagacttgcc tcttccaaaa ctggcactta atggcgctgg 60
 cgggtccaaca gcaactgaac ttgcacgttt gcttggaag ggtggcacta tgggtggctta 120
 ggcaaatgag tccgggaaac catttagtat tctactact ctatttaca cacaagatat 180
 ttactgaaa ggattctcga tgcttaattg gttaaagtcc aagtcagagc aagatgtgaa 240
 gaaaatgttg caaagtgtca cacaatgat ggaaaatgac cagttgaagt tttggatcga 300
 aaggaaaaag ttggaacaac tcgaacaac attagaagcg ttaaccacaa aagaaacctt 360
 cacaggaaaag atcactatct ttagttacca aaaagggaga gatgtacttg agtggctggt 420
 gaa 423

<210> 3114
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-C1

<400> 3114

tcagggccaa aaagttggga gtgaaaataa ttgcaaggat tctaggcttt ggtgatgctg 60
 agcgtcccc agaggagttt actgttgac catcgtagc gattcccaag gctttgagac 120
 atggcgcaa tatcgatata gaagatgtgg atttgctcga gatcaacgag gctttttctg 180
 tggttgcctt ggcaaatatg aagatattgg gtttgatcc atccaaagt aatgtgtttg 240
 gaggtgcagt agcattaggt catccacttg gctgcagtgg tgctcgaata gttgtaactt 300
 tattaaatgc actaaaacat cgccaaggaa agatcggagt ttccgccatt tgtaaccgaa 360

ggcggtggtc cgtctgcttt ggtttttcaa acggaataaa tttttttatt ttgct 416

<210> 3115
<211> 330
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-C10

<400> 3115

aatcccgtct cgacccacgc gtacgccac gcgtccgcc acgcgtccgc ccacgcgtcc 60
gcaataaagg cataaactcc attttttcta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa agaaaaaggg aaaaaaaaaa aaaaaaaaaa agaaaaagaa taaaataaaa 180
aaagaaaata aaaataaata aaaatatatg gggtggtcga gtctataggt ttaaatttta 240
gttagtcttc tatactagtt tatgggtgta caaattgtta ccttgattta aattaactgg 300
ccgtcgtttt aaaacttttg aaatggaaaa 330

<210> 3116
<211> 422
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-061-Q1-E1-C2

<400> 3116

agcaattacg attgtggatg cgcaatgatt gtttccgtgg caactcctga agtgacaact 60
actccttcta ctctagagaa aagacgaaat agtgactcgt tattaccttc acaggcggaa 120
agtttaaaag atggtttcaa acaagtggaa gaacaacaca gacgagattt aaaaaagctc 180
gaaagggcgt ataaaagcgc tgtgaaacag ctgcaactga agcacagggt atgcaaagtg 240
ttgaaagcaa agaatacagg tgggtgtaagt aaggaagagg agaagtgacc cataaagtca 300
tgaggagat tgtgggagtg ggaatgttgc ctcttcgtcc tttctttctg aggttcagan 360
gaatgtgatg ggagaagtta acatcattat agagaatatt tgtatatagg aactacgata 420
ca 422

<210> 3117

<211> 362
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-061-Q1-E1-C3

 <400> 3117

 gaattcccta ctcgacccag gcgtacgggc aaataaggga aagcagtaaa agaagaaaga 60
 gaaaggaaaa aactgagtat caggaagaaa agacggagta gatgaggaaa gaaagatcaa 120
 ggaagtaaga gtaggagagg gagtaatgtg aatgaaagca ggaaagtatt tgaagaagag 180
 agtgtaaagc gcgtaccttt tgcataatgt cccagcaggt gaaagaggaa gcacaaagaa 240
 agaaaaagaa gtagccaggt aagacccgaa gctagttgat cctatgctgt ccaagcgaag 300
 taaggctgaa ccagtatctg tggaaaaaga tttggaagag atggcataaa gggttaaaag 360
 cc 362

<210> 3118
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-061-Q1-E1-D1

 <400> 3118

 ctgttctgat ggtttaatat ctgtagacct tgccaaggac cttttgactg cacataagaa 60
 ctcggttgct gttattgtct caacagagaa tataacgcag aactgggtata gtggacatga 120
 gcgttctatg ttggttacca atacgttggt tcgtatgggt ggtgctgcaa tattactaag 180
 taatcgttcg aaggatagaa aacttggaag gtatcgttta aatcatacgg ttcgaactca 240
 tttcggagcc gatgacaatg cttaccgtag catatatcaa gaagaagata gtgaaggagt 300
 gaaagggtgtt cgactgtcca agtccattat gtatattgct ggtcaagctc tgaaacacaa 360
 cataactact ttgggacctc ttgttttgcc tttttccgaa catattcga 409

<210> 3119
 <211> 331
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-061-Q1-E1-D10

<400> 3119

acggcaacgc aattccgaga aagagaaatt gttgaggcac acgagtgtcg ttgctagtgc 60
tataggatgg tagtttatcg aaagggacta gtaaataatgt tacaaaagtc tttaggagag 120
tttaaagatg ctgttcgtca ggagaaaatc aaagaggact tttccaaaag cgaatatcac 180
gttacaaagg gagagaagat tcgtgccaat agacttcaag cacaatatgc aagaaaggca 240
acgaagactt ggaatatgat caatacgtg ttggaaagac agtcgagagg attctaattg 300
gatatttgta tgtggaggag ctttaaggaaa a 331

<210> 3120

<211> 366

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-D2

<400> 3120

aattccaagg tcgatttgac ataccaaga gagagagagt agcagcatga gtgaggaaga 60
agaaccttgt gacaatgaga atatattagc ttcattgtat caacagttga aaactttaca 120
attcccagct gtacttgggg cactagagac aacaccacgt ggaaaacacg ttgcacaagc 180
cactatacca gagtcgtcgt cgtcagtgac caccaagaa aatatgacgc ccaagttgca 240
agcaatagct attgcactga aaaaccaact tgtgcgact acagaacaaa tggaatattg 300
gaaacaaatg tatgaaactt gtgaagaaca acgtagagaa tggaaagcac aatgggaaga 360
aaaact 366

<210> 3121

<211> 421

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-E1

<400> 3121

agggatcatg taaattaatc cgatttaaac cgagaacctt acctctcaa gaaggtgttg 60
cacggctgtc gaaagaacgt gctgtgaagt gagagaacgt acgagaaagc caggtgagga 120
agagaaggca agtagagggc ggcccagaaa aggagagggc gtaagacgtg atacagagta 180

ggaagaaaag agaagagagc tagaaaaggag gtaaaagaag agtaaaagga ctagaagagg 240
 tacggaattc acgaggaagg agcgtgaagg aaggaggaat cccaagtaat cgaggaagaa 300
 aaagcttcgg tgaaagcgtg aacggatttt gtacacactg ccccgtaag tcctggaagt 360
 gtgctaagaa taagcagcag cggtaaaacg tgtgtagcaa gcgtagagca gaagaactgg 420
 g 421

<210> 3122
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-E2

<400> 3122

agcgcacgca tccggatttg tatgaaaaca gttgtgtagt gtactaaaac taagtatttc 60
 ctgtacttat tcttaacttt ccaaagcaca gtggatcttt ggtagcaatc aaggtaata 120
 gtctgctaaa tttcaaagtt gctttcctga agcggcatat cactctatac cagtatttcg 180
 atggttattg gatcgtcttt tgccggttaa cttgaatttc tgtggagttg cttgttgctt 240
 gaatgataat ccaacattgc ctccaagcga atgaaatcct ttgtgtatcg tccgggaaca 300
 ttccgcattg cgtgtgcttt aacgaacctc gattcagcaa atacttctcg gtccgttcaa 360
 ggacatgaca tctgtcacgt attaatcaca taatgtcata tacttgtcct gtttactca 419

<210> 3123
 <211> 308
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-E3

<400> 3123

gaattcccta ctcgaccgc tcgtcagccc acgcaaccgc gcatgtttta gtgttgatc 60
 ggaagctgtt ttcgatactg taaacaactc tctttcgaag tggaatggcg cgctgaatta 120
 tgtggatgga agacgcaggg aaatcggact aagtgttttg gaaaagggcc agatgggaaa 180
 gtgcacgtac tcccatcaag tttctcccaa ctttgcagtt gctgctgacc ttcgtttgag 240
 tcgatctgga tattagcgtc taggcggcat gggtaccaa ctacctgatt gatgagtcca 300

taatcctc

308

<210> 3124
<211> 321
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-F1

<400> 3124

agcggacaca tgggctgacg cgtgggtgaa ttcctacgag tgtgtacaga gaagaagcag 60
tacttccttg ttctatgaca actgtctctt ggcattgctgc acattgaaat acggcgaagc 120
gggtttatgt cttgaagtac caactaatac attggaattt ttgcaagttg ttcattctga 180
atccactatg acgcaaccca ctaggaaaga tagacgatga atcttctaaa taaattaaaa 240
gcaacttttt gttttcaaaa cataaaagaa tagcataacc caactaataa aagaatgaaa 300
aaacttacgt aaaaacgtga a 321

<210> 3125
<211> 422
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-F2

<400> 3125

aggtcattta ctcaacgttg aacaaaaaat agaaatatat tctcagatga cgttggaatc 60
atggccttga aagtgagaac agtctctgaa taccacctgt gcagcctgaa agtggatgtg 120
ggtagaacac catgaatgag aaggcaggtt ccggaaggaa tgttgactta agctagttgt 180
gagtgaata ggaaagctac aggagtatcg gcagcagtat tttcatgcca ttttctctaa 240
ggtttctctg caatacttct aaaacagcaa attgagcgcg tacgatcttc tgcattgaatg 300
gcaatgcgac tcgggtggaa aggattggaa tgaagcccat aagagtgagc gcaagaaaca 360
ttatttcaat tttttcgagt catgcacaaa aatgatccat ttgtatttct ccctgaaaaa 420
ta 422

<210> 3126
<211> 421
<212> DNA

<213> Cyanidium caldarium
 <223> Clone ID: LIB190-061-Q1-E1-G2
 <400> 3126

aggctcgagaa ttgcctcgtc gaatgagagc tctttgcgtg gttggtttct tatcgtcggc 60
 agagtctggt tatctgcact ataataaatc gcgtgtgccc tttaaagcc agtggttcacg 120
 agattttctct aaatactgta ttaagggcag aaaagggcct tcaaacgaga agaaaattaa 180
 gtattagcct tttcttggga cttggcttga aacaaaacac gtgttcagca ctccatctgg 240
 tacagggtgac aaatgccacc ttcagtgacc tggatatcag cagtgtagcg ggaaacgagg 300
 aaccgcata tagacaaact tttgaaaatt taaggattgg tcaagtattt gaagggaaca 360
 gtggaaaagt tgatgccata cggggctttt gtgaatatag gaccgaatct ttccggactg 420
 c 421

<210> 3127
 <211> 391
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-061-Q1-E1-H10
 <400> 3127

cgacccaaac gaccggtgag aagaagagta ggatcggcaa agaattgtacg aaagaaggaa 60
 aagatcatgt aagagaatga aaagagcaag agtaggaagt gtaacgttgt acaaaggaga 120
 aaggaactca ataggatcaa taatgaacag gataggagta atactagtga taataataat 180
 gttaatagga gaaatatgta gaagagaaga aatacagtta acagtaagag aagagataaa 240
 gataataatg ctgttgggaa taataaacca tatagcaatg tggatagtaa agaaatgttg 300
 ggagtatatg aagtaatagg aggaatagca gtaataagtg gaataggagt aataatgagt 360
 aagaaagggg tagaatcagt agtgtatatg a 391

<210> 3128
 <211> 422
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-061-Q1-E1-H2

<400> 3128

actcagacaa ccaatggatt ttctcttggg cgagatgaac atcttgccaa gtaacccttg 60
acttacaac ccaacctgtt ttgctattgg gagaaacttt tcgacactgc gtaggaccgg 120
ggattccttt gtagcgtgtc ttccactcgg caagctagt ccttgaatat ttcgacaagg 180
cgctgtgcaa tattctgggt ttcacacgt ggcgtgtagt caagaaatac aagaactgct 240
tcagtacgac caaatataga aaagggtata cctagagctg agtaaatacc aaaagtttgt 300
gccagtgggtg ctcgaggaggaa aataggattc gagggagat ggttcaacca aagaggcgtg 360
ttgttcacgt agactgttcc tggtaaaccg tgactgggat cgaattcata tttctgacta 420
ga 422

<210> 3129

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-H3

<400> 3129

agccacgcg accggggtgc gcagagaaag gatggctgcg gacgaagacg agtttgttct 60
caagtgttta gaaatacgtc ccgacgccag ttgttctttt cgactagga ataggggaac 120
gggtatttcc gaagccaacc aaagtacttt atggcctggt ttgtcgagaa agaatcgtat 180
gcacaggaaa ttaaacttta cagacctgaa agtggttgac cctgctttca aaaggggacc 240
aactcttaga atcttaagaa atgttattat tttgtcgggt tttgatttaa gggcgcttgt 300
atttcatgaa aaggtacaaa tatttgacct ggaaaacctt caatgttccc aagtttcaga 360
gcagcttaca acaagtctgc agtcagctcc aaagtctggc agcaatttta tttttgaa 418

<210> 3130

<211> 402

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-A3

<400> 3130

cacgcgtcca gacttagtgg cattcaacga acgatgaagt tccagtacgt gagtctttta 60

ttggctctct tatgcgtagg ttctgctctg gctgctgaat tggcacctgg aattgcggaa 120
aaaccggtag agagaggata tgaggaaccc tgctgtaccg aatattgtta ttgggaagaa 180
atatgtatca caccacacc cacacctaca ccaacctact attactatta ttacgcaaga 240
aatgcataac aggaaaatgt cgatagaagc gtagaaaaga gtatctcttc cgcagaaaaa 300
tctgatgcgg ttcgagggtta tttccccacg tactactatt atgagactcc tacatattat 360
tactattatg agactccatc cccaaccccg acaccaacgc ct 402

<210> 3131
<211> 399
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-A6

<400> 3131

acggacgcgt gggctgcata tctctgatgg ataatatata tatatagtcg atggaaatgt 60
gatattggaa gataggaatc catccaccaa gcatcatctt attgcatcgt gtgagaattg 120
gaatgatgca ataagagaac agtctgttta tcgagttggg aaacgaatga aacaaatagc 180
agcagaaaat gaaatatttc aaatggaaac ggaagcaacc gttggattat ttcatgcgat 240
ggagttgcat cttgtggaca ttatccaagc aactcgacaa caacaacaac taggaggagg 300
aacaagaagt agcaatatat atcgaccatg gaccaataga ttgactattc gtgacctttt 360
tcgtttgacg gaatatgctc aagatatatt gggagataa 399

<210> 3132
<211> 361
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-B1

<400> 3132

cgggccggcc cacgcgtcca gagatatcgc tgtattggtg gtgtgtgtgt gccaaaggaa 60
gacgggatga ttgatccaaa ttagcactag gtggcaatag gcgtcggtgg ctgtgcattc 120
tatgatataa tagctgccta tgtgacattt gaaggatact ggccaccaga ggaatgaagg 180
cgcatgaaac aatttgccgc aaatgcgggg aagcagcaac gaggagttaa aactccgtgt 240

gtttgtccat aacgaaaacc atcttgctggg tttttgttc atcaacgctg tcaaaaagaa 300
 ccttctgtga agtgagagaa ctttagagga ttccaactta ggtaaacatg gcaactacat 360
 g 361

<210> 3133
 <211> 424
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-062-Q1-E1-B10
 <400> 3133

cggacgcgtg gggttgggat gtctcgcat tcagtgatcc aagtggcaca agagaacgcg 60
 ggtgacttgt tagaaagtcc tttttggaat actttaacca attcactgtt ttatgtagat 120
 atcgatggaa agagaatcca tcagtatgaa ttggaaacag agactcactc cagttggaaa 180
 acgagtcaaa gagttggttt catctgtcct gtttctaca gtcctcaagt ggaaacagtt 240
 ttgggtggta tggaagatgg tctttattgg atcaagttgt ctagcaataa taatagtagt 300
 aacaatactt gtgtcgaaca acaaatatgg agccacggga tggacaccaa tatagttcgt 360
 ttcaacgatg gaaagtgcga ttcgagtggg cgactttttg ccggactaat ggattatcag 420
 tggg 424

<210> 3134
 <211> 430
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-062-Q1-E1-B11
 <400> 3134

cccacgcgtc cgaaaacaag ttgcctgagt gaaaagtgag aaacttgtgt gtatccgtga 60
 catcaacatt gttcaacgtg acagacagat gaaacaaaag tacattatgt agctagttac 120
 ctatgtgcaa tcagcttatg atagcaactt tcttagagct ttgcacgttt gttaacgaaa 180
 caagcaagta gctcaacgtt gaacatatca attttcaaag ataaattggg aaacaaacgt 240
 gcactaaaaa accacacatg gtttttactc taaagttaca agtaacattc actcctgtct 300
 ttcaggctgg tgtgtcggaa gctgaggagc tgcaggagct gccatgggtg gtggataaac 360

tacagcactc ccagtgtagt atgcaggagt aaaagtttcg tattgagtga acaaaggatt 420
gaaaccccc 430

<210> 3135
<211> 381
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-B12

<400> 3135

aatcagggttc gacgaagcag agcaaggatc gcaaaactat caaagagctg aaagccgagg 60
ccttggagac taaaaaaagc ggcttgaata cacgctccga aaccgtggcg cacgacgaag 120
taacaactct ctctctgca atatctcaag tgagaattga cggagccaaa agtagtgcca 180
agtgtgctgc agagaaagaa aactgcaaca acgtcattcc tggcgacaac aaacagacaa 240
ggtcacaagc aatcggaacc cgcaatcttc gaagtagaac aattccaag cccaattaaa 300
gtagttgttt tatatttcgc tgatatgcct ttgtttctca aaacatattg aaagcttttg 360
aatgtgttaa agagactgat t 381

<210> 3136
<211> 367
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-062-Q1-E1-B2

<400> 3136

cggacattta gtgtgtttgt tgcgattgaa agagagagag caaaaagtat tggagtgttg 60
taaaatgtca agttttctaa ctcgagcagc cttgtcattg cgtggtgcga tacaacaac 120
acaaaaccag tggaccaaca atggagtagc aaggagactt tatcacgaaa aagtagtcga 180
ccattatgaa aacccaagga atgtaggttc tctagataaa aacgacaaat atgtgggcaa 240
cgattttctt ggttggaaga agatatgttg tctgcaacga nggtgttata caaagctgct 300
acagaaagag tagtgactat ggtgggatta aaacaggaac caaatgccaa agagattcta 360
gaaaagt 367

<210> 3137
 <211> 392
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-062-Q1-E1-B3

 <400> 3137

 aggttcggtg gaaatgagca acgaaagacc tgtttatgac gatatggcat ttcttactta 60
 tggcgtagga attagacgcc aaagtatctt ttatggcaac tcacttacca gacaagtttg 120
 tacggataaa aagcaagttt ttcaaaacgt tcttgggaat ataagggcaa gcaccacaga 180
 agttccgaag aaactctcaa aggttgaaaa ttacaagaaa aactcgagtc acttgaagtt 240
 tcccctgcag caggatttgg aggatgataa catttttgtg tcggaagagt cggttcaaat 300
 aatcaaattt cacggttcct atcaacaaga caatagagag caaaggaaga aaggggaaca 360
 gaaaaagtac caatttatgt tgcctccaaa gt 392

<210> 3138
 <211> 426
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-062-Q1-E1-C12

 <400> 3138

 accacgcgtc cgagacatca gaaacggggtt atattcaacg aaggттаатг aaagcaatgg 60
 aagatattat ggtcaattat gatcatagcg ttcgagattc tggaggtcat gctgtacagt 120
 ttctttacgg agaagatgga atggatgggtg ctattataga gcgccaaatt attcattcta 180
 tgcgaatgag tgatagagaa ctggagattg cctatcgatt ggatcccttc gatgcaaagt 240
 ttggatttgc accaaatggg aggcgatatt tagatataga tgttttggag gccgttcata 300
 atgattctga gcttgccgtc ctgttaaate aggaatttga agctatcaaa gaagatagag 360
 atttattgag acattccata tttcctagaa cagacgataa tcgtgtagca ttaccggtga 420
 atattg 426

<210> 3139
 <211> 400
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-C3

<400> 3139

agaagaggag ttatgagaga aaagatggaa gtaatagaag tggtaagtgg agtaataatg 60
aatcatatga aagaaggaat ggagaatata aggaaggatt acatgaagga ggagataata 120
ggagaaatga taaggtggat atatatatcg ataataagtg tgatagtaat ataaaggagg 180
agaaagagag gaaagagggt tatgatgcag gcaaagaagt gacgcagtag atcagagagt 240
aacacatgca agtaggtaaa gcgaacgggt gagtaaagag gtgtgaaaga gtggaagaac 300
atgaaagcac agaagaatgt aagaaatggt tagagtaaac agaaaaggaa gtaaaaggag 360
ggaatgaagg gaagttatgg caaaaacacg tgccagcagc 400

<210> 3140

<211> 399

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations.

<223> Clone ID: LIB190-062-Q1-E1-C6

<400> 3140

accacgcgt ccgcgactgg aatgctcaac ttgcacaaca acaggacaga agtgaatgcc 60
gtggaggctt tgttgtgggg aaatatgtgt ctctatttct tcaatatatt cttggtgttc 120
tttatctatt gggttggtga aactggtggt tggattccta ctgttgcaga ctatcgcgta 180
ttgacttcat tggaaaagga ccaactggga aaggaagctc agttgcatca ggatagtgcc 240
taagaagaag caatgttgggt tggttgttga tgtgttggtg gtggattgtg tacatatata 300
gagagagtgt gtgtgagaga aaatgctttg tgagtgaacca ctctcaaaa ggcagtgtga 360
acaaatcctc acanagcana agaggaaaat aaaagctct 399

<210> 3141

<211> 235

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-C7

<400> 3141

agacagaaga aagtgtgacg agtttggaga tatctgacta tgagtgggaa gtattgagta 60
gttttagacc tagtaaggca ttgcgagaaa gacttttgca aaatatttct caaaggcggt 120
ggagagacga agcgttacgc cttgttcacg actccaaaca cttgacgatg ttatggagta 180
acgtagtttg acgcaagtgt ttatttaatc ataaagtctt ttcgaccttt catac 235

<210> 3142
<211> 346
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-062-Q1-E1-C9
<400> 3142

accacgcgt ccgcccacgc gtccggcgat ttgtagttat gtttctgcg tattagaaga 60
aggagatcgc gtattgaatg ctattcgaaa gcatacagtt cctagtggta tgtttacaga 120
ggagattgat cgatatactg gtttcgagca aggagctatc aatttaactt ggagttatga 180
tgcccttgtt actgcggttt ggtcgaggga agatgttcac aagttgtttt ctaaattattg 240
tgaacctcct tctccatcgc tacctagtat gccaggacct ggtggtttat cttctccata 300
ataagaggca cttgtgcact ttggatattt ttgtggttca catta 346

<210> 3143
<211> 411
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-062-Q1-E1-D1
<400> 3143

cgcgtccagg tatgaaaaag ttgttaaagt atccaagtag aaacaaatag gctgggaaaa 60
tactactgag ttgacagcaa ctctatttta tgtcttttta ctccaactct tttctttcgt 120
cgctagacac gggtgaagag tctagttggg gactgaagat agtaagtata tttcagaatc 180
cgagctccta gtgtctaata ttatatttag gcaaggctctg cttcctcggg tcctttttcg 240
atcgaggaag tgtctggtac tggtaaatca ctcgtcggga agcagaagac gggggaatat 300
ttaagccaaa gtctgaatcc ggaaagattt agaggagact caacaagaac aactcgatgc 360
tcaaattacg actttgtttg ggaagaagcc ttgggttagg gcgccttcct t 411

<210> 3144
 <211> 425
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D10

<400> 3144

aggtagaaaa ggaaccccaa caatatgact ggaaacccta tatcgagttg tgtgaaatga 60
 tgaaatcagc gaatctaaaa cttcaaactg tacttagttt tcatcgttgt ggtggaaatg 120
 tgggtgatca gtgttatatt ccattgccaa agtggatatt tgcagttgca gaaaacaact 180
 ctgatatctt tttcaaggat agagatggca atgccgatga cgaatatctt agttggggta 240
 tcgatgaaga acccgtcttg atgggaagga cagctgtcca agtataccgc gatttctttg 300
 tttcttttcg ggaaactttt cgacaatatt ttggaaatgt tattagtcaa gtacagatag 360
 gtctaagtcc agctggggaa atgccttatc ctagttatca gttggccaaa tggacatttt 420
 gtgga 425

<210> 3145
 <211> 179
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D2

<400> 3145

accacgcgt ccgctttcaa atattctttt gcaaaaaaac gaattgccac aattagtcgc 60
 aaaccaatat cctatggcgg ttataaaaa agagcgcaag gttcggactt gttctccaag 120
 taggggaaaa ttctgtgttg ttttagagac atctattata aaactgtcta taccgaccc 179

<210> 3146
 <211> 414
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D6

<400> 3146

agggcgtaga taagcacggt ttgaataact gggaagctat tgcagaagat cctgaactgg 60

gatttccggc aactctagaa aaacttgctc agaagaaaca aaatgaatct ggctctgtca 120
 acgagaaaga tttcaagttc cccaaagcaa aggtctgtca aaaacgattc aacttggtac 180
 tagacctgtt tgtatcaagc ctggaatctt ttgaggatta taatgcagtg caacaatcct 240
 cttcctcggt ggtgattgac gcgttacagt ttaatcgaga tatactgaag gaacaacctc 300
 tggtcatggt tggagatcct cgtggagttg tagaaatacc agagaactca gaaactggag 360
 agttacgtct tccgtttgat gtgggatgtg gactagttat tctcagtttg ggtc 414

<210> 3147
 <211> 411
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D8

<400> 3147

agggcatggc gaaaggtaga ctacaggatc gtcttgagaa gcttctgcct tataatcaga 60
 cctgggtatctt ttatataacc aagatagtat tttacgtatg cacttttatt ttctctgtcg 120
 tcattgctgc tctggtcagt aacgcaaagt ttaatatata tgataaatcc ccaccgaata 180
 ttcatggaga cttttgtgca tacaaggcgt cactagctga gccagctggc gtgactgcc 240
 tttgcaagta cctcatagca gtaggtgctc ttggccttgt gtttgctata gggttcggtg 300
 cattctctct atggaccctt ttggcacatc gactgattga tttatgggtg gtcgaagcct 360
 tgttgaatac cttttggatg gtctgggtgg ttatagcagc tggagttgct a 411

<210> 3148
 <211> 430
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D9

<400> 3148

cggacgcgtg ggccggacgcg tgggcgtaga gtcaagtgtg gatattccca ggtctctagt 60
 tactccttcc tttgaaatgt tgaaaagact ctgtttccgc tggttagaac caagccatcg 120
 cttctatcga tttataggaa ctgtctatct acaggatgct gctatcatcc ctatacctga 180
 gctagaaaga gacgaagagt ttagacaatt caagaaccag attttggttt ctaaggacag 240

agatgaaaag acaaaagaaa gactcagaat aagacaggaa gtacttcaag agttagaaga 300
acaagggatg attcgaagga agaaaccaa gaactcttca tatgacccca aaaatggaat 360
ttatatggag agatacttga caacagtacg tgaagttgct gaggagtatc tgtttgaat 420
agacaacaga 430

<210> 3149
<211> 430
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-062-Q1-E1-E10
<400> 3149

atagcgcgat aactttgaat ataagcttcc aaataactcg ggaagaatgc catcactcgg 60
acaactgtag atatacgacc cgtaaataga aagttatcgg taaatagacg caaagtaact 120
gaattagcgt tttgtacggg ttgtaactga tcgttgggta taaaacgaga gaaaataggt 180
cttcgtaaac gttgatattc ctttaccata gaatagactg gggaatggac aggtaacgta 240
gtttctgctc tctctaataa gcgtgaaaaa gcttcacgaa catccgaaaa gggaacttcg 300
gaagcaaadc tagtaatggg agctatatga gctacaaata gttgtccttg atcagaacct 360
tgtaacgagt tttccaattg ccaaagtatt ctgtccagtg cttgtttcct tgcagcttca 420
tcctaagtca 430

<210> 3150
<211> 432
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-062-Q1-E1-E11
<400> 3150

aggaagaaga cgtggggaaa cgctaggcaa gtggccgcct aagtgactgc gcttcttttc 60
aatcctttca aatattgagc ttggaccatc gaaatcctcg gtatattttt gaataaaaaa 120
cgagaactaa tatggaaaaa tatcgaagag ttgagcgagc caaaagtccg ggccagactc 180
cgccgaatca agtacgaata actgcggcgg gcaaagtgcc agcctatgtg gactatgcag 240
tcaagttgct tcaagaggat aatggcaccg tggaaatcgt cgggctgggt aatgccatca 300

ataaggctat cactgtagca gaaatattga agcgaaaagt cnccaagttg gagcaagtaa 360
 caaatcttag ttcggtgact attgaagacc gctgggaacc attggaagaa ggcttggacc 420
 ctattgaaac ga 432

<210> 3151
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-062-Q1-E1-E2
 <400> 3151

cccacgcgtc cgagagcggc gaacgacgtc gattgtgcgg tggcttgatc ggttccttcc 60
 ctaatattcg acaacgagca tggaagaaac tgctggtgct agtgcagctt ccgcaagtgg 120
 tgcgcctaag agaagaactt ttcgcaagtt ttcgtaccgc ggagtagagt tggatcaact 180
 attggacttg aacatggaac aactaaagga gttgttcaac tgtagaatcc gaagaaagtt 240
 gaatcgcgga atgggtatca aatacaaaac actggtgaaa aagttgcgaa aggcaaaaaa 300
 ggaagccccg gaacacgaga aacctgaagc tgtgaagacc cacctccgcg atatgattgt 360
 tctgccagaa atgattggaa gtgtcgtcgg agtttacaac gggaaaact 409

<210> 3152
 <211> 408
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-062-Q1-E1-E3
 <400> 3152

agggattttc tgatgaaaag gaacgcattt ggatgtttca taccacggaa cctgaaattc 60
 gtcataaacc ttacgacgaa gaaattcctt gtgttagtag agaatacaag gaaatatcca 120
 attcatttca tccttccgaa gacgattgga tatttgccaa tgatgcacta ctttatgggtg 180
 atttaggaga agaatggcca tcgaatagtc catgggttga atggaatcgt ccaccacaac 240
 aacaacttga ttcggtatat ccaagaaaag atagtcacaa ggaggatatt ggagaagaag 300
 ttttttcggt ggatagttta tggaatcatt ttcatgataa tgaatggcaa ctagacttgt 360
 tatcttcttc ggagagtaat aatagtaatg attggtttat taagacac 408

<210> 3153
 <211> 335
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-E5

<400> 3153

tgtcattata gacaattcgc cttctgcata tggtctacat gaggagaatg cgattcctat 60
 tggaacatgg tgggatgac cattagatga agaactctta aatttgcttc ctttcttaca 120
 ggccttatgt gtcttggtg atgttcgctc tattcttagt cttcgtgaaa caaaaggagt 180
 tttattgcac aatttagtat ctagtggacc ctatcattca tcatgaggaa aattctatgt 240
 tagatggcaa ttgaataatt gtttgcttga tcgttgcttc tgcttctatc tagtagtctt 300
 tataataaac catcttacat acagttgagt cccat 335

<210> 3154
 <211> 312
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-E6

<400> 3154

aggaaaaagc ccagaagcca agataaggta tcaaagtaaa gaaagaagga aaaggagaag 60
 aagagagggt aggcttagaa gcagcaaacc agagaggaaa gcgttaaagc atgaaagaaa 120
 agaaatccga aaaagaagag aaaaaggtaa gaaagaggac cgaatcaggg taagaggtag 180
 aggagcaaga agagaagaga gaatgctggg tggagtagcg aaacaagaga agggaagtaa 240
 aaghtaagaa agaggaaagg ttacgagag aaggaagtag aaagaagaga gtgtaaggcg 300
 gcgtcataat ag 312

<210> 3155
 <211> 412
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-E8

<400> 3155

aggggatctc tctttttttt gtggggagag gtgattggcg actctgtcga ggaagcaagg 60
 cttgggaata gaactatata ttcacatcat tttccatcat ctttctagaa attattgaag 120
 aagaatagtt gtgagaatat gagtcattat tgtgggtgtgg tggatatttg tttccaatcg 180
 tgtccttgtc ctgctagtct atggagagtt ggaacaagaa gaaaaagatt gcgttgcggtt 240
 tttttatgtg taaataatag gaacaattat gcgagtgccg cttcttcac ctcacacatt 300
 aggagagagt gtctcatcat aggactaggt aatccaggaa ccgagttgag caatactcgt 360
 cacaacttgg gctttcaagt attggattat tatgcaaata gatattcttt ca 412

<210> 3156
 <211> 422
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-062-Q1-E1-F11
 <400> 3156

aggaaccacc gcgtcattcc ttgttgtgta tccttggatg gtttccacct catatcgact 60
 agttcgtact acaacagttt ctttcaagcg tggattatcg caagcagtga aaagcgatca 120
 agctacttct gcttcagaag cgctcaagt ttctagtggg ggttctctct tacatcccca 180
 ggaaataccc aaagatgctg tcaagttttc attgaaacct tttgctactc acctcatcga 240
 agtccagaa cccgttgctt atgctacgaa agaacagtta ctggcatatc atcgcacgat 300
 gacagttatg aggaggtctg agatcagtgc tgatttaatg tataaagcac agttgggttcg 360
 aggtttttgt catttgtagc atggccaaga agcaacagct gtaggcattg aatcagcgat 420
 ta 422

<210> 3157
 <211> 432
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-062-Q1-E1-F12
 <400> 3157

actcgagtgg tgggaaaacg ttcgacgca gattgtcgtg agaaacagaa aggaaccttt 60
 tttcacaacc agtaaatagt tacatggata caacatcgtt catatattat agcaactttt 120

cctgttgtag acgacacccc aactttatct ctgtcgctaa gcaactaccg aaagcacgaa 180
aactgagaac agtaaagtcc aaccagttgg tacagctatc ctgctgtgtg aaatcgaacc 240
cttttttcca aaaactatct ctaatgaaaa cactagaaga cagtttggag aaaatgtgga 300
gaaatagcaa ggctcgctcg gagaaaaggt cgatggagta catacagtgt tcagcgtgta 360
aagcagtata tccagtacag gcaaatatgt ttggggaaaa cgggagatat gtgctgtgta 420
tagtttgtgg aa 432

<210> 3158
<211> 400
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-062-Q1-E1-F2
<400> 3158

agcaacaaca ggacggaagt aaacgcagtg gaagccttgc tttgggcaa catgtgcttg 60
tactccttca atatcttctt ggcttttttg atatactggg ttggtgaaac cggaggctgg 120
attcctaccg ttgcagacta tcgctgtgtg acttctgtgg agaaggatca aactttgtcc 180
aaaggagcgg agatgcatca agaagagtct gcataaagga ctatttttgt atagttgcca 240
tcatggacgg tttgtgtgga aagttgtgat tgtgtagaga gtgtgtttgt gagttgtgtg 300
tggtattgtt gttttacgtc tttgtgagtg accactcgta cgagtgtgat gaatcctcac 360
aaagatgata gaagacaata aaacgatgtt gttttggtat 400

<210> 3159
<211> 354
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-062-Q1-E1-F3
<400> 3159

acaccgtttt ttgtgggttt cactcgtgtg ttttgtcttg ttaaaactcg aagactatct 60
atttcttggt atgttttaga ggtgtttcta gactcttttt ggagttgtca tactccagtc 120
ttcgtgggtt atgaatggct ctagtggcaa agagtacttt tactttccca ccattctcca 180
cagctccaac catcaacttt tatacgacc ttgtatatct gtgccctag tagctaacta 240

attccgcttg aagagattgc aagtttggtg tactaaacaa gaggtgcaag tgtcagtata 300
agagagtatg tatgtgtgtg tagtgtgttt ttgggagtag gactacaccc aagt 354

<210> 3160
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F4

<400> 3160

aggagtaatt tgttgaagag agggccaaga tgggtgcactc tatggaagta aagaagaata 60
agtttataga acagtgggct gcctatagag aaaactctga atatttatac aaatggacac 120
caaagcgtgt aataggaatc ggtcttcttg tgggcgtgat tccgtattac ttgtatcgct 180
acattgtgta cagtgtggaa aatcagtacc caaactatgg agctgcagag tatggtttac 240
tgggaggttc tctccaaag tactcgagtc aagatgatga aaataagtaa cttgacaacg 300
tcaccaacga cctaaagttg ctctgttggc gtattatatg aaaactttat aaacaagttt 360
atTTTTTTTc taaaaaaaaa aaaaaagaa 389

<210> 3161
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F5

<400> 3161

atgtttcgtt gtggaaaata aaatttttgt gttgaacata aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaattaa aaaaacaaaa aaaaaaaaaa 120
aaaaaaaaaa ccaaaaaaaaaa aaaaacaaaa acaaaaaaaaaa aaaaaaaaaa aaaaaacaaa 180
aaaaaaaaaa gaaaaaaaaa aggggggggcc ccccaaagg tttccacctc aacttcccct 240
tcccggcaac ttcaagcccc ccaaagggtg ccccaaatt ccattcccgg gcccttcttt 300
ttaaacgttc gaaccgggaa acccccgggc gttcccacc taaccctt ggaagcaaac 360
cccccttccc caagctggcc tattccccaa gggccccccc cctcttcccc 410

<210> 3162
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-062-Q1-E1-F6

 <400> 3162

 agcggacgcg tgggttgga tgccgcagaa aacgatgatg ggatacacct ctcccagca 60
 agcgctgttg cagtttagcat ccatcaagaa aaccacaaaa aagttaaaga agcacttgca 120
 aaaatacttg gatgaaacaa aactaagaa cacagaagat gcagaaccac tggaacgtgc 180
 aaaggcaaac ctcaatttgg catatatatc ggcgggccctt ttctacatgc ttcttcgagt 240
 tcacggggtg gaaacttcag gacatcctat catggaagaa ctgcaaagaa tcaaggaacg 300
 ttttcaagtg ctccgaaagt taattggaca agaagatact cgttcactgg ttatagatgg 360
 tgaggcgacg ggtaggattt tagcagccac tctgaaagat ctctcagcgg acaaaa 416

<210> 3163
 <211> 134
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-062-Q1-E1-F7

 <400> 3163

 aaagggggag gtactcgccc cgatggagca ttcttaaaag cagtggaaaa agaattcggc 60
 tcattggacg ctctcatttc gagcctctct gctacagcta tcggcgtgga cggatctgga 120
 tggggatggc tcgt 134

<210> 3164
 <211> 429
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-062-Q1-E1-F9

 <400> 3164

 ccgatattca tcctcgaagt gatgatgggt gtggtgagtt taattatcgt atggtttggg 60
 cgatagcatt cccggaagaa cgttcttatc gacttcgaat gactatctgg gatgtgtctt 120

catctcctac gggttccggt cgagacggta cttttattgc agaattgtcaa gtggacttgg 180
 agcctttgtt aaaggaagct catctaactg gtcgtatggt atcaagaaag cctcaatggc 240
 taagggttttc tcateccaac tatccacaga tgaacgcaca tgccaagctg tctctagatg 300
 tattggatca acacgatgcc aaattctatc cagttgcaaa aggaagacaa gaacccaatc 360
 aatatccata tttaacctcg cttttccgtc ncgtattctt aaatcctctg aatcctatgc 420
 catttgtgt 429

<210> 3165
 <211> 411
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-062-Q1-E1-G10

<400> 3165

atctccttgc gaggaatttc ttgcggggcc gaagactcgc tttcttggtt tgtggtggtt 60
 gtcgcttttt gtctctcaag tttttgccga aaatgggttca acagtggaga gcagcaggtc 120
 tcacttatct tcgttatgca aatatatgtg cagattttgt tcgcaaggca ctaaaggaac 180
 cgaaaagaac tgaagcattg tcgaggaccg gttttgagat gacgagaagc gagtggagtg 240
 aaggcaaggt tgtgaagaga ggtaagtcca cgaacanaac tactagaacg gtgatttgat 300
 ggagacacct gcagagaccc ttacacaaga gaatgaaact agtaacgtcg ccaagagtaa 360
 caagtgaatg tgtttgttgt aataaacgtc tagaagaacg cgtacgtgtc a 411

<210> 3166
 <211> 403
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-G12

<400> 3166

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccggg agaagaagag 60
 agggtagact tagaagcagc aaaccagaga ggaaagcgtt aaagcatgaa agaaaagaaa 120
 tccgaaaaag aagagaaaaa ggtaagaaag aagaccgaat cagggtgaaga ggtagaagaa 180
 caagaagaga agagagaatg ctgggtggag ttacgaaaca agagaaggga agtaaaaagg 240

tacgaaagag ggaaagggtta cgacagaacg aagtacacag aacacagtgt aacgcggcgt 300
cataatagaa atccgaaaag agtagaagaa aagagagaga agacagaaaa gaagagaaaa 360
gccgtactga agaccgacac aggtactcga ggagaaagga gac 403

<210> 3167
<211> 403
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-G2

<400> 3167

acgcgtccac ccacgcgtcc gggcggacgt ttttttcgtg aagcaaaca caacaacaac 60
aacaactatc ggtcgcgcaa tgcttacagt gaaaccccat cacaacttgt tgaaatgggt 120
atttttcaac atccctgcga gaacgaacta gtttgtaaga gtaccaacga aaagatcccg 180
ttttttaacg ctccaatatt tctggaaaac aagacgcaga ttggcaaagt ggaggaaata 240
tttggctcta ttacagacgt tcaactttact gtaaaaccag tggaacgtgt attagccact 300
tcttttggtg taggagacaa attctacatc ggctcagaga aactgctgcc gcttgacaga 360
tttcttccca agccacctgg tagtcagagc ggagacaagc cgc 403

<210> 3168
<211> 341
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-G5

<400> 3168

accacagagt caatggacac attatgtgac gactcgggtg tatcgggcag cacaccttat 60
catgtcctac tagacacatt actctacagt catacacatg tcgagtgtg gctgtatctt 120
tgggggggcg ctcaactcag gaagaccgct gtctccagta atgaatggtt tccatcagtt 180
agacctcatc acgaagacac tatgaactcc ttcagcacac gcatttgcca catgtaacga 240
actcccgac gtactcacta tttgcagtct ctctctagaa gagcaccaaa acctctcttc 300
ggaaatattc gctgggtgcc gatccccgtt gctctggcgt t 341

<210> 3169
 <211> 405
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-062-Q1-E1-G7

<400> 3169
 cccacgcgtc cgcttgcttc tggatcagag agcgcttcct taccgggCGT tgcaattgat 60
 gagaaacgag tcgtgtcttc cacgggagct ttatccctta gtcaagttcc taagaggatg 120
 atcgttattg gaggtggcta tattggtctt gaaatgggtt ccgtttggag gagacttggt 180
 tcagaggtca ctgttttTGA atatcttgat cacatagtTC ctatgcttga tcgcgaagtt 240
 gcagatcagc tctacaaatc tcttcaaaaa caaaatctaa agtttaagct cggcacaaaa 300
 gttgttggag tggatagcag tggtagcacc ctcaagttga cagcagagcc atcganaggt 360
 ggaaaacaag aagtcctcga gtgtgatgtt gttcttgTtg ctaca 405

<210> 3170
 <211> 427
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-062-Q1-E1-G9

<400> 3170
 aagaacttgt agaagaaaag agagagaaga aagaaaagaa gagaaaagcc gtactgaaga 60
 ccgacacagg tactcgagga gaaaggagac ccaaattaag gtgagagaat ggacgataag 120
 gaactaggca aaaggatatg gtatctgcgg tagaacatat gaaagaagca gcaccgactg 180
 tttagcaaaa acacagcact ctgcagaaaa gagaaaatgt aaagtataga gtgtgcggcc 240
 tgccaaatag tagagaagaa atcgatgaaa gtganagcga gtaaaagatg aggtatagaa 300
 atggcgggtcc taactgtaag gattcaaagg tagcgaagta natagacgtt tganaggcgt 360
 ccagtatgaa aggagaaacg agtgtagcac tgtctagtcg tcnaactcag cganacagct 420
 ataactg 427

<210> 3171
 <211> 394

<212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-H1

<400> 3171

ggtgctctga gaagggatgc aatcttttca cttggagagt acgtgtcctc aaaacaagca 60
 ggagtttagaa acatatctcg agcgtctaca aagacatgca caacagcttg aggcggagct 120
 tgtacgtggt cgacaagcta tggcccaagt tagtttctat cttcgtgatt ttcgccaggt 180
 ggaggaagcc aaaagtcgca atgatttttc aaatgtagc gccgtcacag gagagtctgc 240
 ggaaaatggg tgtctatcaa gaaacacgtc gttctcgtcg tttggctctt ctactgcaag 300
 gtctgataca acaccacaaa agagtgtcgg cgagaaaagg aggagggtta ataagggatc 360
 gagtggaaga tattggtcta gtgaagaaca tgat 394

<210> 3172
 <211> 302
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-H10

<400> 3172

aaactttttc caaatataga gaagttgttg atgcaagggg tgttgatgaa cgtgaaactg 60
 gtcattcgcg tggttttggg ttcgtatcct atgcataatg ttcctccgta gacgaatgca 120
 atgccgcact gaatggcaag gatatgcata gacgcactat tcgtgtgaac aaggcaatgt 180
 ctctgaaca actcgagagt ggaggagact ttcgtcgcgg tggtcgtgga cgatacggaa 240
 gttttcgttc cggtccttat gagagacgtg aacgtgactc tgatcgtagg atagatcatg 300
 ac 302

<210> 3173
 <211> 428
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-H11

<400> 3173

atgaattttc aggtgttgga ggtgcgtatt cccaagagtt gggaacagaa cagcacttgg 60

agacataaac gttgtaatag aagcaacaca tataggaatc gctcttttat tcataatatg 120
tcagggttg tttgtcacag agcacttata ttaatagatc acggcagtaa agttccagag 180
gcaaacgacc aaattgccaa agttgcttct ctagttgcaa agcgggttcc aaatactttt 240
gttacttttg ctcatatgga attagcgaaa cctgatttga tggaggcttt cactctatgc 300
gttgaaaata atgctaggaa catcactgtt tgtccgtttt tcttgtttcc tggaaaacat 360
tgcactgtag atataccgca gatggctcag aactgtgcta gtaagtttag tagagttact 420
tgtaatgt 428

<210> 3174
<211> 383
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-062-Q1-E1-H12
<400> 3174

at ttgagggtt tcttttcgcc cgtgcgatgt taagacgggc actctatgaa cttgtaacaa 60
ggcttatatc ccaaagttct aaagtagcac cttttaattt tcgctattcg gtagagagga 120
aattgggaac tttatttcct agttttcacc atactttgtc tgtgcagacg agattttttc 180
aacagcccaa gagttgctgt ccgagacggt attgttcgtc caactccgga aatgaaagag 240
gagtcctagt tgattcagac aagtcaagta atccatctgt tggaaaaagt gaaggaatcc 300
ctatatttgg cagagaagag tcagatcctt ctcaactggg aagagattat attcgacttg 360
tgtegtact tgttcgtatg cca 383

<210> 3175
<211> 431
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-062-Q1-E1-H9
<400> 3175

agcttgga aaagctctgtt ggaagatgac cttgatgttg tttgtgactt tcggatcacc 60
aaactttgta gcacacaagt ctaaagtatt gaataccaga aacaaattac agaggcagtg 120
tggctgcgtc aacacaaagc gtgataaaag gactcaagta ccaaacactt gggttatgac 180

tgaaactaca ggagtcaagc ttttgaatgg cgaacagaag atggagatga aggcaacgaa 240
 agaagtcaaa gttggagagc gtgtttcttt ttgcaggtgt tggaagtcag caaagcatcc 300
 gtattgtgac ggttcgcaca acaaataaa taaggagacc ggagatcatg tgggacctat 360
 tgtagtagca gcagtgcagg ctacagaata gttttattgt gttttatttt caataaaggg 420
 tagcagtttg t 431

<210> 3176
 <211> 355
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-A11
 <400> 3176

gggtcgaggc acgcgtcagc ccaagcgtcc gccacgcgt ccggtgctga gcgagaggca 60
 aggtgttatc atggcaaagg cagtgagaat tggtgctgaa gggtacaggt taaagttgga 120
 cggtgcagtt caagagatag acggtcgttc tgtagtcctg gtagatgtgg atagtattac 180
 ccctctcatg tttggaggta gtatgaaaga aaaggccaaa ttgttggtatg ccaagtttct 240
 aaggagagta ttatgaggag aacaaggact tcttcttctt gtcgactaga gaagagaaga 300
 aaatgtttgt gacgttacaa cttgccaggg aatatgcaga gctggtagat gacca 355

<210> 3177
 <211> 199
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-A12
 <400> 3177

cggttcggcc acgcgtcagc ccacgcgtcc ggaacgatgc gcagtaatgt cgcgattgtt 60
 ttctttggtg gacaaggata aagttgctga tataagagaa caacagaaaa gaataacgga 120
 caagttgtct tccaataccg caaaagtgga tgagtgtgtg agggaactga gccagttgta 180
 tgaggaaacc tgcagtgac 199

<210> 3178
 <211> 167

<212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-A3

<400> 3178

gaatcggtag aatcaatacc tgcagcgatg taagagcatc tttcctgcaa tgtgatatca 60
 tggagggtga gaatcccgtt tacctctttt ccttgcaagg cagctgcgtt accatatttc 120
 atgttgtgga gtctgggtgt ttgggagtag atccgtaaat ttgttgg 167

<210> 3179
 <211> 380
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-A5

<400> 3179

agcgacagga gcactcgaca ttggactgaa ctacgaagaa taagactctt tgtacaaaca 60
 caagaaaaaa agatcaactg ttaaagctaa ctgcttgctg ttaccaacca ctgcgcgatt 120
 tgttgtgctt gtttctggaa tatcgaaaat tcttgttctg tgtctacttt ttacttaggt 180
 gtcaccaacg tgcagcgaaa ctggtaaata gaacacgtgc ccagtcaatc tgtgcaaaca 240
 ctcttgtgcc aaatacagag ggtctggatg agtcactatc ttctgagaat gttttgaagc 300
 atcttccctt ggaagagaat gtcgtctcga gttttgtgtg tggaaagaac gtttcagttc 360
 aaagcaactt atcttcaata 380

<210> 3180
 <211> 386
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-A6

<400> 3180

agcccacgcg tccgcccacg cgctccgcca cgcgtccgcg caagtgattt cggaacaaac 60
 cattgaagaa aaagaaacaa cgaaaacagc tgttattgca aaagatcttt tggctggaac 120
 tgcaggagga actgcacaac ttttagtggg acaccggttc gacaccatca aagtaaaact 180
 acagaatcaa ccttgggtcg ctccaggaca gactccacaa tataccggtg caattgatgc 240

agtaagaaaa acggttgcaa gacaaggcct tgggggtcta tacaaaggaa tgggagctcc 300
 actggctttc gttgcagttt tcaacgcagt tctgtttgct tctaattggc aaatgaaaag 360
 aatcgctccac ggtgaaggta acaact 386

<210> 3181
 <211> 400
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-A8
 <400> 3181

agcccacgcg tccgtatttt ctataaatac caacatacat attgtattct gtatgtttgt 60
 ggttgctttg aattgcttac cttggctacc aaaaacagtt cgttcctatt ctttttttgg 120
 ttatacacc aactcgaaaa ccaaaccatc gaggaacttg gtgacttggt tgaaaaagga 180
 gcgccataac aagaataata acactacgaa taataattat cattctcatt gtaaagagtt 240
 acccaatatt gattccaaaa ctttattgag tctaggactt gatatacata ccaagtctat 300
 agggtttgcc atagtctctg gatggacagg tcaagcaatt cgtcacggta tgatccaact 360
 acaacatatg gaaggagccg atgtttttga taaagttgac 400

<210> 3182
 <211> 406
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-B1
 <400> 3182

acgcgtacgt taagagacta ctgaaacacc aaagagaatt cgtattactt tgaccagtaa 60
 aaacttgagg gcagtagaag gagtatgcc aagaactcgtt caaagagcaa agatgaacgg 120
 cttgagagtt agagggtccc ttcgaatgcc gagggaaaact ctgagaatta ctaccaggaa 180
 atccccctgt ggagaaggaa ccaatacgtg ggatcgcttc gagctaagaa tatataaaag 240
 agtagtcgat atatttgcca cggctgatgt agtgaagcaa gttactgcat atggtttcga 300
 ctctgaggta caaacggagg ttactattag cgattagata gactgcaaga aaaataaaac 360
 aggcgtctcg tgggaattta aaagaaaaca caaaaaaaaaa gggggg 406

<210> 3183
 <211> 403
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-B10
 <400> 3183

cgcgtacgat tacatttcac attctccttg tagaaaacta tgaagtcttt cggaattgct 60
 attgttttcc taagctttgt tattgcatct tatgcagcag ttgtatccga aatggcatcc 120
 aatgagtttc aaagaggagg atacgctcct tctccttcca aggaatgctg catgaccact 180
 tgtcaatatg cagaactttg cccaatttct caaccaactt atagccaagg ctccatctta 240
 cattccatct cctacctatg gccaaagctcc ttcttacaat caatattctt cttcgtacgg 300
 ttctcttagc tatcgtctct taactgcaga cgaaaaccaa cttgtgagca gaggagggtta 360
 tgcaccaaca agccaatgta ttctagttcc tatccaatgc tgc 403

<210> 3184
 <211> 389
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-063-Q1-E1-B12
 <400> 3184

cgggctgggc acgcgtccgg cgtttcgtat ggatcgcaaa caatatcgag caagtgatag 60
 aactgggtcg tattttgaga atagaaacgc cgactatcga aaccatggac gaaaatatgt 120
 ggcttcttcg acaaataaga agtttttccg gcgtcgagtt tattcaccta ctttggacac 180
 tacaaggaaa gaaacgaagg acgcttattg ggaacanaca agacaaactg ccagtggcac 240
 ccagcacaaa atataaagac gatagaagtt cgacctatgt aaatagccag gaaagttatt 300
 caaacttggg cacggaggaa agggaatccc cagcaactac tacagaactt gaacaaactt 360
 catcctgnga cgctcgtgt gtgaaagac 389

<210> 3185
 <211> 394
 <212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-B3

<400> 3185

agcaagcaaa gaagtgacgc agtagatcag agagtaacac atgcaagtag gtaaagcgaa 60
cgggtgagta aagaggtgtg aaagagtggg agaacatgaa agcaccagag gatgttagaa 120
atgggtatag ttaaaaccct taaggagtt aaagcgcgga atctcagaag aggaaagcca 180
cattgtggac tgagaaaaag tgcaaacacg agaagtcacc actggggaaa attgggcaat 240
gtacagggaa gtatgacca gtaatgagga gtggagtaaa cagaaaagga agtaaaagga 300
gggaatgaag ggaagttatg gcaaaaacac gtgccagcag cagcggtaaa acgtgtgtag 360
caagcgttga gcagaaaaaa ctgggtgtaa aagt 394

<210> 3186

<211> 260

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-B4

<400> 3186

gataatgata ataggaggga gtagtacagt aattgtaaaa ggaaaaggaa aggaaagaaa 60
gaggaaaggg ataaaatgca aaaatcccaa aaaaaaggca cgaaagaaaa gaaaggaaga 120
cccattaaat aaggcaagaa accataggaa ttaaaccgga taagaaacc ttttatccaa 180
gccattaaag aaacaattaa ttataaaaaa aggaattcat tcaacaaggg aattaaaggc 240
ccacaaacaa accccaaacc 260

<210> 3187

<211> 369

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-063-Q1-E1-C11

<400> 3187

cgcgtcaggg ggaaaagang acgaaatgcg agctgcattg agtttggcta tttcccaacg 60
ggagttgatt ggatcgtttc ctgtatagtc tattcatgtt gatatctttt gccattgtc 120

atTTTgcact tgtaaacaga aaaggcattc agacaaggaa atattgctct tcttgcaang 180
gaacgtatTT ctgtagttgg caagcttatt ctggagatga ctggatatct ccatttgcag 240
tggaagtcag acatacacta tTTtaataat catagcaacg gtggtagcag taataatagt 300
gaaagcccaa tttcagcacc tagaatactt gtattatatg gttcgTTaag acaaagttct 360
ttatccccga 369

<210> 3188
<211> 382
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-C6

<400> 3188

ggcattgtgg ttgcaaaggg gtttgtatag gtgggagtag tgaagataag caacaagaag 60
aaacatgaca agcactgtac tagttgggaa atggacaagt ttgctacgtc caacgttggg 120
aaaaaacacg gtaccagtaa caagctggag gaggggtttc gcttcccttt ccccaaagga 180
ctctcctgtt cctttgtcca aacctgaggg ctcgtagaa tatgtagttt ccaagttgga 240
cgacctttgc aattgggcta gaagcaattc cctatggcca atgacttttg gtttggcttg 300
ttgtgccgtg gaaatgatgc atgcagcagc tctagatat gacatagacc gcatggggat 360
agtctttcgt ccttcaccta ga 382

<210> 3189
<211> 377
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-C9

<400> 3189

gcgtcagccc aagcgtccgg cttgggagaa acggatcgat ccctgttttg caagagacaa 60
tgagcagcac caactccacg acttgttcgc ggtttcaact tttacaagct gcttttgaca 120
aggcggtttc cacgtttcta gaaaacggct gttcttactc taagttttcc gagttcttcc 180
agcccgttgc ctctgtttat ccagaggaat ttgagctgtt gcataaacia cttccaacia 240
ctcttagata taagactaaa gcaagaattt cagttattgc tccaagataa agatattgca 300

actaaactcc aggtttgcga ccaactcttc caaacgtatc atgtggatag aaacggttat 360
gtgagaatac ctttgaa 377

<210> 3190
<211> 383
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-D1

<400> 3190

agccacgcg tccggttgcg aagcgttgct gttatcgtct atggcggtat ttgaaagtga 60
tatagttggt cctgcaattc actttacgaa aaagtataat tcaaggaggc gctacaagga 120
gtgcatttcg tgcttttagtg cttcgggtgg taaaccaggg tggttctttt gacataagcc 180
gaaaattact cgcaacgggc tatacgactg ataagggtat gaagaccaat aatggtgctg 240
ttcgagaaag tgacttttac gagagagtct tttcaagaat agcttcaaag cgctctgact 300
tttggaaga agtttctgta accttagtag tctctaccat tgacaccgag tcggataagg 360
ttatttcagt gtggaacgcg ttt 383

<210> 3191
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-D10

<400> 3191

cgcgtacgcg gaagcgtggg agagattgga agagtcgtcc tggatgaacta tggcaaagac 60
cgaggcaaac tgggagtcac tgtggatgta gtagatcata atagggcggt ggtagatggt 120
ccactcacgg gacttgcgag acaaaccatc aactggaaga gcttaacgtt gaccccgttc 180
aaagtaaaga ttcaacactc cagtcgtaca ggagttgtga gaaaggcatg tggaagaggc 240
gaaaatcacg gaacaatggc aaaatacggc gtggtataag aaactttgtg cacgaagaaa 300
caaacaaaaa cttggagact ttgatagatt caaagtgatg attgccaaga agagaaagtc 360
ggctatgatt catagt 376

<210> 3192
 <211> 337
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-063-Q1-E1-D11

 <400> 3192

 caattctcgt ttttatctta cttgggcaca gattgagttg cgtgcccaaga attatgaaga 60
 agctgctcgt ctcgtctctt tgggtggagcc attgggacct accaatgtgt atctatggca 120
 aacctatgct cagatagaaa gtgctcaagg tcatttggga caagcctatc attactatctt 180
 gaaggctctt gagttggatt ccaacaatgt aaagagttat ggaatgtctg gcaaaattgg 240
 tagccaaaaa gggtaatggt gatgaatcaa ggagtatttt tataaaagct attgagttgg 300
 tcgaaaaaga tgcccgttta tatgcatggt tggccaa 337

<210> 3193
 <211> 392
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-063-Q1-E1-D2

 <400> 3193

 acggcaacgg aagacacggt tgtacaactt gcgaaaactt taggagatgg gaaaacgccg 60
 caagttatga gaaaaagata ttcacagttg ttgcggtggg tacagcaatc ttccaaatct 120
 gtccatcgtt acaacaaatg tgagacttga atgttggtta aagtttattc tccagagcgc 180
 ttgaatgggt gtagacgtag ttgtaataat aataagtcac aactgggtgt tcgtccaatt 240
 gttaaggaca tcaactaata cagttccttg aacggcataa caaaagtcgt caaactgaac 300
 gttacagaaa atcttatgga agctttccac actgctccat tgtaaagtta tatgtcttga 360
 aatgaaagg ttataacaaa tatcaaaata aa 392

<210> 3194
 <211> 379
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-063-Q1-E1-D3

 <400> 3194

cccacgcgtc cggtcgattg aaagtggaaa aggaattgac tggtcgactg cggaagcctt 60
 ggcaattggc actttattgg cagaaggaac aagtgttcga ctgagtggtc aagatagtga 120
 aagaggaact ttttccaac gtcattcggg ttggatcgat caagaaaatg aagctgttca 180
 tattcctttg aacaacttgg gaatgacgca agctcgtttc caagtctgca attcgagtct 240
 ttcagaatat ggcgtgatgg gttttgagtt gggatactcc ttggaaagtc ctaatattct 300
 agtgatatgg gaagctcagt ttggagattt tagtaacggg gctcaagtta tcattgatac 360
 ctttttagcc gcaggagaa 379

<210> 3195
 <211> 364
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-D7
 <400> 3195

agcagacgcg tccgtcaggt cgatcatcag atgtcggagc caatggagat gtcgcttggc 60
 gtgtttcaag ggaccctaaa gtgcgacgca gactgagacg gtgattgcgg tagcacttat 120
 cagttgaact ttaaccagta tggtcaccat ttcaagtgc ctttcgacga gagaatgtgt 180
 tctgcacatc gtgttggggc tcgcgtcggg tctcgtctca agggagaccc tctaggacag 240
 tcacaaccta tgtgaagaca atgggggtgc gaattgaatg gatacagttg tgacgatagt 300
 tgtcaacgta tgcacccgtg tcagcatact gggagacacg agtgtagaac cgtcgcctca 360
 tcgt 364

<210> 3196
 <211> 399
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-D9
 <400> 3196

ggtcggccac gcgtcagga aagaagaaag tgctgctcgt aaacaagcac gaattgattc 60
 tgggtgaagaa actattgttg ggggtgaacaa gtatcggctg gagacttcat catcatcttc 120
 caatacagac tcttccagtc agaagtctga acagttggaa atcttgaaaa tagatgcaca 180

acgagtacga gattctcaga tagaaagaat taaaaaagta aagagtagtc gagatgagga 240
 gaaaagtga ggcgtgtctg atggagctgg aggaagcagg aaaagataaa agcaagaatt 300
 tattggaggc ctacagtaaat gcagctagag ccagatgtac tttaggagag atttgtggtg 360
 cgctggagaa agtatgggga agacatgttc ccaaagatg 399

<210> 3197
 <211> 375
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-E1
 <400> 3197

cccacgcgtc cgdgaagaag atgggtccaag agatgcgacg agcggttgct tctcacgctt 60
 tacgtgcata tgtccctggc aagtttactc gttccgtact aagtatcttg tgcattataa 120
 gtgcaggtgt tattgggtgct gtgggagttg tttgttttat attctgtagt atcaatccga 180
 gaaacgttat catcaatgta tatctcatta tatttgcagt gttgataatc ctttccgagt 240
 tgggtttcag ttttctgttg aagcggtttg cgttttttaga tacgtttttt ggacctggaa 300
 tattttacat tttcgtgggt ttactggcag tggatacgca ctggtttcag atattggctg 360
 gtgtatttgc tgccg 375

<210> 3198
 <211> 391
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-E2
 <400> 3198

agcccacgcg tccggtaaaa tatgtcgaac gaaccaaata tttgtgaggc gttggagaca 60
 gctcacaaaa cgtgcctccg taaagttaaa cgagctcgga acaaggaagc aaagttgaaa 120
 gagtgtcaga gttattttga tatgtcgaag gataatagtt gcccttgga acctgaaaca 180
 agcaagcagg acgctgagaa atagtgaagc taaaatatca agtagaagga aacatactga 240
 ttttaaggaa acgaaggaag tttgcagtta tatttgtact agtaacaagt atcaaccttg 300
 ctgcctcctg cgcttcacaa gactatTTTT ttacaacaaa gtaggacgca agacagggat 360

atacagtgtgta gcactacctc ccttttggag t 391

<210> 3199
<211> 390
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-E3

<400> 3199

agacattttc cacttttatg ggcatttgggt ttgcgaagct ttggcgaagg ctttatcgga 60
tacaggaact taaagtatgt atgatacgtc ttgataatgc acgcaagact actatactgt 120
atcgacttca tttgggagat gtggtaatca caacacccac tataagaagt aatgtagaac 180
aagtcaagtg tcgaaatctt ttatttcaag tatgggactt gggaggacaa gacagtcttc 240
gtgaagcttg gcaaacttat tttgtgaata cgcaagccat tattttttgtg gtggacagtt 300
gtgatagaga aaggttcgat ttgtctagaa aggagctggt gagagtttta cgaatggaaa 360
atctatccaa ggctgtgttg ttggtttttg 390

<210> 3200
<211> 130
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-E4

<400> 3200

agacaaagtg gagctattgc caggcacttg gcaaggaaac atgacaaata tgggaagaca 60
gaagaggaaa aagccttgaa cgatatgctt tatgatatga ccgtcgatat tcacagcata 120
tacctaaagc 130

<210> 3201
<211> 180
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-E9

<400> 3201

actgagtatc aggaagaaaa gagggagtag atgaggaaag aaagatcaag gaagtaagag 60

taagagaagg agtaatgtga atgaaagcac gaaagtatth gaagaagaga gtgtaaagcg 120
cgtaccttht gcataatgtc ccagcgagtg aaagagtga gcacaaagaa agaaaaagaa 180

<210> 3202
<211> 292
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F1

<400> 3202

ggaagcagac cacacgaact ttggcaatgg catattctgt ttggataaac tggactgggt 60
ttccaacaga aaattggaaa aggttgcagc tctgccgtga ccgagatgct gcaaaagtaa 120
tcgttgcaca gttggataga ttgacggcag tcatttcggg catccgtcat cctgcaaaat 180
gctttcgtct aatgtctcac gtgtgaaaaa tgcagtgta cgaagtgccg atcgcttgta 240
actttttcct acaaaaattc tctctggaaa attaagtcga gaaatatcaa tt 292

<210> 3203
<211> 372
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F11

<400> 3203

cacgcgtcag agcagatttc aacggatatcc tgthtgaagg agggaatatg gaggttgtca 60
aggtcggctt tgtagctcag cagccttggg agagctacag taccaatcgt cgcagcttat 120
tacgtacaaa acgtggcctt ggtcgtactc gaaatgtttt tatgacagtt acaccagata 180
ggaaacttgg gacctctggg ccagttccac ataccattgc accctcttgg tggaaaactt 240
tcggatgaag agaagaagag agccatgcag gtaaataagc ctgaaggagt tacattttct 300
gcaaagtatg tggctthtga ccaggacgat gattccgaat atgacttgaa tcaagtcgth 360
tatccagcaa ag 372

<210> 3204
<211> 388
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F12

<400> 3204

gcgtaagaga gagaatgccg ccagtctccg cgtttgtggt tggcacacct tttgtttag 60
aaactgggta ttcgacttgt ttgcgttgca actctttcaa caacaagtgt agaaatacta 120
acttgacttc agtgactctg cctcacaaga aatggagtgg tacctattcc cagttccatg 180
gcaaccagtc cattcttcga caaactcgac tccctttttc tttcattccg catagaaaac 240
aacgacgata tggacctttt aaaccccatt cgctgtgaag aagaagatta ttatagtgtt 300
cttggcggtta gtcgtaatgc aggtaccgag gatatacaaga aagcctttag aagactcgct 360
agacgttatc acccagacgt aaagaaag 388

<210> 3205

<211> 319

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F2

<400> 3205

aggtacttgt cagttggcaa aacaggcttt cgatgatgcc ataacagagt tagatactct 60
ttcggaagag agttacaagg actctactct cattatgcag ttgttacgtg ataactttac 120
cttgtggact tcagatatgg gcggtgaaga agatggaaac gcaacgaaac cagacggaaa 180
agttgaacca gacccgaaca aaaaggagtg atagataaaa gcatgtgcga tatgtgtgtt 240
tttgttttcg actcgcacat tgcttttgca cgataagaac aaagaaagag agatacttga 300
atatgcaaga cagatgaat 319

<210> 3206

<211> 382

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F3

<400> 3206

aggggttgtg gaggtggtat gaggaatgct taggtttgca gtagactata cttttcttgc 60
ccccatgag ggtaaaagca aactatgatt gaacgccttc gctgtgttgt ttgtggggta 120

accgatactc ctttgtggag aagtggaccg agaggaccga aaacgctttg caacgcctgt 180
 ggggtgcgtt ggaaaaagg aaagttgtat atagatggaa agcaagcgtc cccaccttca 240
 gcgacaatag agaaaactag acaaaagcaa gcaaagggtt acaaagttac cacctcgctt 300
 cactcccaaa gttatgatag tcttcaccaa agttgtgcag tcgaagaacc acaagcctcc 360
 aaatatgagg ctttcccaaa at 382

<210> 3207
 <211> 388
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-F4
 <400> 3207

agaaagatta aagagtcgcc ctggtcgacc atcaccgcca tttctaggat ttattatggc 60
 tgcaaatgga tatagtttag acaagcaatc cattgaaaga atattacgag aaattgaaga 120
 acaaaatcct tggtcacaaa cagtatcatc agatgaaaat ggtgaggtga aaagcttata 180
 aaaatgttcc acccaaggtc tttacgtgaa ggtttgatat acaagatgta aataatatct 240
 ttgtgtgata tcaaaccgcg aataaggacc gagatcaaaa atcgcgcttg acgatacggg 300
 ggagtgcac aagtaaaagt ctctcatctc agacttcgcg aaacattatt aaaaggtttt 360
 ccttatcaca acttatctcg aaataata 388

<210> 3208
 <211> 394
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-F7
 <400> 3208

ccacaagttg atagtgagtg gaggagatga acctttcctt tatatatggg atactcgctc 60
 gggaaagctt gtaaacaagt tagatttggg tgccattgt atcaagtctg ccgaaatata 120
 gagcacgggt tcttttacca aattaactgc agtaactgga aatagtttac aattttggga 180
 cttgaatcaa ttatgtagaa tggacactat gtctatttca caagatgcag aatgtgctag 240
 ctcaagtgga aatcacgtcg tcgtcgggtg tcgtgacttg caaattcgac tctatgacac 300

aaatacaaaag caagtgctac atacttttca tggatcatcat ggccctgttt ggtgtgttcg 360
 tttttctcct ttaagttatg ggtttgcctc aagg 394

<210> 3209
 <211> 227
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F8

<400> 3209

agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaacaaaaaa accaaaaaaa aaaaaaaaaa ggaaatcaaa 120
 aaaggggggg cgcacctga ggttctagtc tttttttccc cgtccagcca atttttagacc 180
 ccttccattg ggtccctaaa ctttcatttc atggcccgtc gctttta 227

<210> 3210
 <211> 326
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F9

<400> 3210

tgtggttaag tttattacca ggagtgcccg ttggatgttt cattataggc tttaatattcc 60
 gagctagcaa catccatgtc gaagaatgaa tttacatttg gggatcata acatattata 120
 tgttttgggg ttctggtatg ggaccttatg cttgggtact gggatcggta atatatccaa 180
 cttatattcg aactgaatga atggcgctag ttacttttgt ggacatacat tggaaacttt 240
 aataacaact aatgcctttc caacaataaa agaacaatta atggctcaag aaatttcaat 300
 gggttttaag gaaggtttgt taacaa 326

<210> 3211
 <211> 285
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G1

<400> 3211

agttctcttt caaaatccag tcacaggact tggccttgca agtatttgga tcgtattggt 60
 aggttctctt agttattcta tagtgcgctg tagagagatg atacaaaagg cagtccaaga 120
 acgtttacca gagaaagtat gaagttgcgt attttatttt taggagacac tggagttggt 180
 aaaactgtaa ggtgaaagaa gattggtatg tcttagtaaa ctcatagagt tactaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagag agaag 285

<210> 3212
 <211> 61
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-G11
 <400> 3212

aacacagcac tctgcagaaa agagaaaatg taaagtataa agtgtagcgc ctgccaaata 60
 g 61

<210> 3213
 <211> 392
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-G12
 <400> 3213

cgcgtcagcg gtagcgtggg cggacgcgtg ggcggacgcg tgggaggacg cgtgggggtt 60
 aatgagtgcc gtcagttgta tgaacgagcg gcttatttga cagattcgga actgcgaagg 120
 tttcggttgg aataccattt agaaatgaac agagcgcttt atcgacttgc ttatgaacac 180
 tggaaagcac atatggattc gggcaaaagt tgggagcaag ttttcagact ttgtttacaa 240
 acagcgcacc tttttgcaac tacaaagtgc ccaacgataa tatatttata tattacttgt 300
 ttctcgaacg gtatctcgaa tttcttccat ttccattct gctttgcctg tcaacctcaa 360
 cagcagattg tgatacctcc aaccaagttg tg 392

<210> 3214
 <211> 377
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G3

<400> 3214

agcactgatc cattgtttac caaggaaaca ttcatatagc aaccaaaaaa acgagctgaa 60
aacgctttgc atagtctctc tttctttcaa tgtttcttac cgcaaactgc atttggttta 120
tatttcttct gaaacttggt taacgcaagt tggaacaact cttctgcagc gttcggggga 180
catggaacga tgaaagcaaa ccttgccctg gttcttgaac gaagtgtgta gtgtaaactg 240
tgaaactaca gagtattata aaaagaacgg agttcgtgag catccatacc aaatatgaat 300
tcaccttga tatcgaaaac actccttttc cgtctttctt cttcagcttc ttcggaaagg 360
gctttcattc gcagttt 377

<210> 3215

<211> 373

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G5

<400> 3215

cccacgcgtc cgcccacgcg tccggacaat acctagggaa tatgttgaat tggcaacttg 60
gcgttatcaa cagtttaatg ttcgaagagg tgcactgttg aatagggagc aaagcaagga 120
atcagaacat tccaagttgg agagttactc aggaaagctg ggaggtgaat atttttgttt 180
gtggttttagt gaaaatgttt ttagtgtcga cacaatagaa gattatcgca agattgcagc 240
gcatcattat tggcgtaaga agaatgggca taacgttaca aaccaaacgg aaaacgacga 300
atctagtaaa agtgccgtta ttttggccga gagagaagag aaacaattca cggattcgggt 360
atatagtgag aaa 373

<210> 3216

<211> 372

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G6

<400> 3216

ccggctcgac ccacacgtcc gctgagagga ggaaagccac attggaattg agaaaaggtc 60

caaacaagag aagtcagcag tggggaaaat tgggcaatgt acaggggaagt atgacccagt 120
aatgaggagt ggagtaaaca gaaaaggaag taaaaggagg gaatgaaggg aagttatggc 180
aaaaacacgt gccagcagca gcggtaaaac gtgtgtagca agcgtagagc agaagaactg 240
ggtgtaaagg tcgagtagta gagtaagtgt aaaagggaaa ggaaaggaga gaaagaggaa 300
agggatgaaa tgcagagatc tctagagaaa ggcaagaaag aaaagaaagg aagacacagt 360
aatgaggcag ag 372

<210> 3217
<211> 369
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-063-Q1-E1-G7
<400> 3217

gaggatctcg taatgaagtg gaggttgata gcgcgttttc atccaatcga cgtcaagacg 60
tccatcgaga gtttgtaaac acggagagct cccattctcg ctggaaggac aacaataacc 120
atgaggttgc ggacaattcc atttcgagtg cctcaagaag aaacgtaatg atggttggta 180
gttgtagtga gaattcacgt tcgttcccgg caccaagtag aattcgaaag tccagattcc 240
atccatcagc gagacagtgg agtccgaata agaaaccgcg tagaaatttg gatgcatggc 300
gtgactttcg gaaacagaat ggatggcact gacacgcgga agaaagaatg tcagagaggt 360
tggcggggtt 369

<210> 3218
<211> 376
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-063-Q1-E1-H1
<400> 3218

agtgttggtg gtggaaggcg taactttgtg ggtttcctta caagatgtct tttatatttc 60
gtggaatcaa aggcctttcc aatcctcggt atggacaacc cgtggattta cccaccggaa 120
taatgtatag cttgaagcaa atgtcgtaca ttgtccagtt tgctttttct gttgtagtca 180
ttgctatggt ctccaagtt acctttttatc tataccgtga ctttaagtgt gctttcagtg 240

ggcattggga ttacgccacg catagcgaag tgtctgggtcc tgtgggttat tgccggttact 300
 tcattgcttt ggggagcatt tccatcgta ttttagctat tggtgccgta gctacttttg 360
 gaacgctgta ttttga 376

<210> 3219
 <211> 206
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-H10
 <400> 3219

cacgcgtcag acacaatttg aagtttggtg ggcaagttga gcttttgtat tagcaccttt 60
 tttgtgggtt ccctcgttgt gttttgtctt ttcaaaactc gaagactagt tatttcctag 120
 tatatttttag aggcctttttc tagagtttgc ttttggaatt gggaaaaccc gttcctcgtg 180
 ggttgtaaag ggttttatca acaaaa 206

<210> 3220
 <211> 318
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-H11
 <400> 3220

tcttgaaaga cataactgca agtattgaaa agcctgacat aaaatggata actaggacga 60
 atctcagta tttgtgaat tctgcagaag gaaatgtcac gggtgacttg tcgcggcagt 120
 gtagcttgaa ggatatattt tcattgaagc ttctcgacaa taactttaag ttggcgtggt 180
 ttaatgatgc cttgtttttt agttttacca ggcttatact ttgttattac tggtaatcgt 240
 atattctgta gacgctcgga cttgaatgaa acggaagcat tggagtcctg cttttcgttt 300
 atgaagatat gccccacg 318

<210> 3221
 <211> 406
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-063-Q1-E1-H2

<400> 3221

aggagccaac caccaacaac acgagatgac cgactccacc gctgctagtt ggagaacgag 60
tacttcacct tcttgttcca ctttcttatac atggaagcgt ctttatgggt tgtatcaacg 120
ctatatattg cctgaatatc agaaacctct gttgtatact ttcctaggaa tattattttct 180
ctccttgtgg cgactcgtat ggaaagtatc tcctctagac ttgtttcact ggttggacgt 240
ggaatattat ctacaaaatg aagacggcac tacatttggga tatgtatatt ttcctttggg 300
cactattcta tggtttatta tcatagtgc tgtatttaca aaggtaacca accgtcttca 360
gtctcactat tattctagaa gaacgagttt gatacttgtg tgtgtg 406

<210> 3222

<211> 358

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-H8

<400> 3222

ggcgggatcg aaactaacga tcgtggactt ttcgactaca tgggtgtggtc catgcaaagt 60
tggtgtccta aaatatgaag aactcagcga aaaatatcaa caagttgtat ttttgaagg 120
tattggggac aagaatggag aaaccaacaa aataatgaag tctttcggtat tacgagcagt 180
accaacgttc aagtttatga agggaaagaa aagtattcac gaggttgccg gggcaagaat 240
cgatgcgttg gaagatggca taaagagcta tatgtagtta cttttggagc aaatgaataa 300
gcacctttat ctattttcca tatgaagaaa ataaaaacaa tttatgaagg gaacaacg 358

<210> 3223

<211> 338

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-H9

<400> 3223

acgcgtacga tttagaagga gattcagcgc ttagaaaata tattgaaaaa cgaggaagga 60
aatatcacag attcgaaacg agccaatttt ttgcgtcgtc ttcatatcct aaagtcgttc 120
ctttcgaatg aaacggagga aacaaattcc taaaagttgc tgtaatgttg tccagacaca 180

gatattgtca ttcacagtga ataaagaaca gaaatgcttg cgaaaaaaaa aaatccaaaa 240
 aaaaaacaac ttaaaactct tgcaaaggat cgaaagagat cactaaattc actcacagaa 300
 tcgataaaaa aaaaaaaggg ggggccgccc aaagggtt 338

<210> 3224
 <211> 331
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-064-Q1-E1-A1
 <400> 3224

agcccaagcg tccgccacg cgtccgggaa gaaagaggca aatacgggaa agcagtaaaa 60
 gaagaaagag aaaggaaaaa actgagtatc aggaagaaaa gagggagtag atgaggaaac 120
 aaagatcaag gaagtaagag taagagaagg agtaatgtga atgaaagcag gaaagtattt 180
 gaagaagaga gtgtaaagcg cgtacctttt gcaaaatgtc ccagcgagtg aaagaggaag 240
 caaaaaggaa caaaaagaag tagccagcta agacccgaga cctagtgate gtatgctgtc 300
 caagcgaagt aaggctgaac cagtatctgg t 331

<210> 3225
 <211> 348
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-064-Q1-E1-A2
 <400> 3225

ccgggccggg ccacgcgtca ggctagcggg gtgggaggtg tttggaaagt gtccaaccaa 60
 gtgaatccat ctgcactgca gcgcttggaag aggaatgaaa gagtgcgaag agcacgttgg 120
 gaactttatg actccaagtt gccaaaggaa cttcgagcac aattaatgcc aagttctgac 180
 aaggaagtac gaagttttgt ggaaatgaga atacgggaaa tgatattgaa cggagacttt 240
 gaaaatttaa aaggcaaagg aaaaccattc aactattctg atgctgcagt gaggtagttt 300
 gacgttgcta tgaagatgct taaaaacaat gatttgaagc caccttgg 348

<210> 3226
 <211> 360

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-064-Q1-E1-A3
 <400> 3226
 caggtgatgg ttaccgggc tcgccacgc gtccgaaaaa aactgggaga aacgacacgt 60
 ttcggtggc ctcacgtca ggtctttgtg tgaggaatat caacgacagt attcagagct 120
 atgttcaccg aatgaaagca cgaaagatat gctactagta aacagattgt ttcaaattcg 180
 ggaggagtcc agacaattgt ctttgttcaa acaaagagtc gattgttttt tgcggacact 240
 tgaagacagt tggaattgga taaaagagac gaggggagca catacagaag agaagctttc 300
 cgaggagaat tttgtcggca atagtatgaa gcaagtcgtg actgacacaa tagacttgc 360

<210> 3227
 <211> 362
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-064-Q1-E1-A4
 <400> 3227
 ggtcaggata tccgggccga gccacgcgtc agccaagcg tccgctcttc aaaaaacagt 60
 ttctgtcctt gtgttggttg ggtaatgtct tccgttcgaa gggctagctc aaatacccca 120
 gctactcgtg caagctcaag tacttttcc ggcgctaaca gaaactcagc tgtgggttca 180
 aaatggagtg ctggtaatct atcgggttca gcaaagagaa ttcaaaagga gctagcagaa 240
 attagtttag accccctag taactgtca gccggcccaa aaggagataa cttgtatgaa 300
 tgggtcgcta cacttatcgg tccagcaggg tcaccttacc aaggaggtgt cnttttcttg 360
 gg 362

<210> 3228
 <211> 334
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-064-Q1-E1-A6
 <400> 3228

aaggagatag caaggggttat gaaaatttta gtcagtgtaa agcgtgttgt cgactatgct 60
 gttaaagtgc gagtaaaacc ggacggttcc ggaatagatc tcaacaatgt gaagatgtca 120
 atgaacccgt tttgtgaaat agctgtagaa gaagcggtag gtttaaaaga gtcaaaagtt 180
 gcatcagaag ttgttgttgc tactgtggga ctttcgcaat cttctgaaca aattcgtact 240
 gcgttagcta tggggtgctg accgagggcat acatgtgcaa gtggaacaag agttgccgcc 300
 atccatcggt tcaagagtct gtcaactcct tttt 334

<210> 3229
 <211> 311
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-064-Q1-E1-A7
 <400> 3229

caagtattca aataccaagt acaatacagg tttaccattt ctggatgcag tgtgaagaac 60
 gtcagatagt cttcatagag cagaaattaa tttcgggaat tattactata taatcaaagc 120
 tcttacttta cgatgtaggg acaatctgaa agtgctctta agatagaaac ttctctcaga 180
 gtagttgcgg ggacgccttc gtcttcgttt accaaaaggg tctttttcag tgcaacaatt 240
 tcgtttgttc taatatcttg agctttatac acctttccat aagtaccttc tccccaaaaa 300
 aaaaaaaaca a 311

<210> 3230
 <211> 381
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-064-Q1-E1-A9
 <400> 3230

gaccacgcgt acgcccacgc gtccgattta tcggagtgtg tcgataatgc actaaatgag 60
 ttggaaagct gcaaatgtat tgcgttgga ggtcctgaag aaaatgagga agagatgacg 120
 gatgaagtgc aagtgaagaa ggaagatgca gatactgcaa taggtccatt gaatttgggt 180
 atgattgctg cattttatta tatacgatac acgacagtgg aactgtttgc ttcgagccat 240
 aagcgaaaag attcgtctga gaggtctcct ggaagtgtca tcttccgcat ccgaatatta 300

tactgttcct atacgtgtag gtgaagatga aattttaaga agatagcta gtcatgcccc 360
gtttgctcct attggaagca g 381

<210> 3231
<211> 334
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B1

<400> 3231

cacgcgtcag cccaagcgtc cgggtggggt aacggatgaa agaccactgc atgaggataa 60
ggaatctaac tgagtaagga aaataagctt aagctagttt ggctggggaa gtaaagccta 120
agaaagagta aattaggcaa gcaaaggcat gagagaagta taatagcaga agcatgcttg 180
aagaaaaaga aagagatttc agaaagggaa gaaaagtcag ctatagagaa caggtgaagg 240
agaactcaaa aagaggagag caccgaacga tcgaagaaga aacgttgggg gtaacagggt 300
aatgtggtgt tagagaacgt atcaagcacc acga 334

<210> 3232
<211> 334
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B2

<400> 3232

cacgcgtcag gtgatcctct ttcttggcgg catgtactga caagcaaaag taagacatgt 60
tcttgtctgt ggaaagaaac actttgttcg taccatcata ttccccaggt tattgtctgcc 120
atgcttcgta ccacataggt gcaagcacga ggaaacttgt gcctaaatct tctccagtc 180
tctacgaaat accatcgggt ttaactaggt ggaccattct ccatcgctgt catcattgtc 240
ttcttattcc taccagtggc taccacaata ctgcaacacg atgtggcaag tcgtctcagc 300
gcaatacaac ggacgatagc gggaacagca acaa 334

<210> 3233
<211> 317
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B4

<400> 3233

cacgcgtcag gcgacttttg aagcagttcc acaggcgatg cgggactgtc ccgttcactg 60
tcggtctttc tactcaaaga agactagggtt caaagcctac catactatga gacgacgaag 120
cagaacatac aagtgtcggg ttccaccaa gtttctcccg agtccgccta ataaataaac 180
tagtacgacg cgtggagatt tggttccttc tcaagcaaga taacagctgt aaaccaatcc 240
ttttcccagc taacagccta gcaggagatg agcagtttag cggggaacag agcgatacaa 300
agtttgctgt cattttt 317

<210> 3234

<211> 325

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B6

<400> 3234

agcttgcttt tggcgttgcg tcactatgaa aattcgttgt tatccacgct ttctcaattg 60
tctctagtat ggagtagaat gaacttgag tttccgacag attcagctgc atttcatgtt 120
atgccgtcta tacattttca ggaatcatct gaagaacaag aaggccaag tgggaaacga 180
acaacatttg gtcccaatga atgggaacga atcgttgccg aagaattgcc ctacaataag 240
atttacattc ccatgcacgc cacttcgaat ggaccagata ctctattcaa gttacgtgaa 300
catactaaga atgaaacctt gcttg 325

<210> 3235

<211> 332

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B8

<400> 3235

aacatgaagt tggactagtt cacgtaaag taactcctat gccgtggatg gtcctggttt 60
attaggttgt gagattcgtc agttcttata gtgacttggt gcaaagctga ctggtgaaat 120
gtagtttata tatttcaggt gttgcaagga aagattccga ttcgaatact tgatggcttt 180

tatatctacg tcaaaatggg tctagctagg tggtgttttg ctgtctgtaa agcgtgcgag 240
aaaccctggt cagtaagctc tggatatcaag tctctggggg cagtcgaata catagcaaac 300
tctatacgac ttgatagttc gatagagtcg gt 332

<210> 3236
<211> 265
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-064-Q1-E1-C1
<400> 3236

cacgcgtcag gccaaagctc cgcccacgcg tctggccacg cgtcgcgccca cgcgtccgcc 60
cacgcgtccg gccacacgct cgcccacgcg tccgccaag cgtcgacca cacgtccgcc 120
atgttttact ggatgctcga aaatgctcct cgaacggact tatagatgct tatcgatgga 180
gctttccgcg gtgtaatgac ttgtaataat aaagttgggt tgcttccatt tagtacgata 240
gacaatcacg gtgtttccat acgtt 265

<210> 3237
<211> 357
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-064-Q1-E1-C12
<400> 3237

cccacgcgtc cgcccacgcg tccgcccacg cgtcgcgtgc cttttgtcgt aaatgtattg 60
tttctgacaa agaatttgaa atgtggggcg atggagaaca gactcgttca ttttgctata 120
ttgatgacgc tgtggaagga gtgattcgct tgatggagtc tgactttgct gaacctctga 180
atattggttc agaagaaatg atatctatga acgaatatgg caaaactcat catgtcattt 240
gaaaacaaag acctgaaaat caagcatatt ccaggtcctg aaggagtctg tggcagaaac 300
agcaacaatg agctttgcag gaaggttttg ggatgggaac ctaaaatcag ccttgcc 357

<210> 3238
<211> 332
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-C3

<400> 3238

agcggaattt ataagacatc gtacagacgg agatattgaa aaggctagac atgatgataa 60
cgcagatcta cgagatccgc aacctgatga gagtagagta gaggatcctc attggtagt 120
ggttattggg atttgtactc atctaggctg tattcctata gccgacgtg gtgactatgg 180
tggctgggtc tgctcctgtc acggttctca ctatgacgtt agtggccgca ttcgaaaggg 240
acctgcgcct tccaacgtgg aaatacctcc gtacaagttt agcgaagatg gaaaaatgat 300
tattggatag tttgtttgga atgtttcgtt gt 332

<210> 3239

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-C4

<400> 3239

ccgggccggc ccacgcgtca gcgaagaaat caacccttg ttttggtggt cagatgaaga 60
tttactgctg ttacaaggca gtccaacttt atctgcttgt cagcaactga gagaaaaact 120
tgtgagagag tatacatatc tagagaagca tattattcca caaatcccga acctggcccg 180
tatagacttt agacaatttc agtgggcatt tggattctt ttttctagag ctatttgttt 240
tcctagtacg aagagaattg cattgggtacc ttatgcagat ctgctcaatc agagtccttt 300
ttgttcgcc tttattgatg aagaaagtat tccacttgga aatgga 346

<210> 3240

<211> 319

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-C7

<400> 3240

aaaagaagag tgcaatgggt gaaaagtaga aacagagtac taaggtagct gtagaggcgc 60
acttgaaaaa gtggtcacgt cctttttacat gtctacaagt attttttttg cttgtagaga 120
ttgcaagttt agtgtacttg acaagggttc caagtatcat tcagtgcctt taagcacgtg 180

tgagtgtact tggaactttt caagttgaat aggttagacgt tgttgacgaa agtatgtaga 240
 aaaattgaag cggttattagg ttaagctaga agaatttacc atacgagaaa agtaaacttg 300
 aaatTTTTCT gattaaaaa 319

<210> 3241
 <211> 359
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-C8

<400> 3241

aggttgcggt tgacgtgggg tagtgggtcaa ccaagagtcc ttgggacaca aactatgtcc 60
 acaacttcat aagtttgtaa agtttgagta cttgcaatga gctatctagt aggaaatacc 120
 gaacaagatt tacaagccaa gaaaccaaca tatgaagaac tgggtggccga actatctcaa 180
 ctcaaggcgg atttattcgc agaaagacac aaaagaaagg tagttgaaca agagttgaaa 240
 gagttgaaac agttgtcgtt ttctaggcag actcatatcg aggcagaaga ggagtatatt 300
 gcgaataaac tcataaaacg gctcagagag ttgagggagg aaaaggaacg cttggcggt 359

<210> 3242
 <211> 323
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D1

<400> 3242

ggaagaggaa agagatggtg gacaaggcaa tagccactgg acgtttcaag gaccgagtta 60
 ttattataac tgggtgcagca ggtagttttg ggagtaactg tgccaatcga ttcgcgtcag 120
 aagggtgcaa agtgggttatc acggatattg ttgaagaagc aaagcttcaa gaacaagcaa 180
 agaacattga aaagcagttc aacaccaagg cagttgctgt tcgttgtgat gtgacaaatt 240
 aactcaagt agagcaggta gtgaagacgg cacaccaagc ttttggtaga atagattacc 300
 ttttcaacaa cgctgggttat caa 323

<210> 3243
 <211> 360
 <212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D11

<400> 3243

gacccacgcg taaggacaag tagcaaatg ggcaagtctt gtaaaggctt gtttgatgaa 60
ttggttcggt gtctgagtaa ctccgagtgt gtgaagaacc atcctgacaa aaagactgct 120
ttgaaagact gtgcaaagag taatgggaac gatgtttcgg actattgcaa gggagtaaag 180
gactcgtatt ataatgtcg tcgagcagcg tttgatatga gaaaacgcat ttcagagagt 240
cccagggat tagttgacaa agtagtttgt taacaaagta gttgtatatt ctcagaagag 300
ttgcagacat tggactagga acaagtgtaa gcggctagta aatttttatt cgttatggac 360

<210> 3244

<211> 336

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D3

<400> 3244

cacgcgtcag gtttagatttc ctgccagaca aaatgaacga cgacaagta aaacaacaag 60
tacagcagat ggtctctttc attaaacaag aagctgaaga aaaagcagac gaaataagag 120
tcaaggcaga agaagagttc aacgctcgaa aactgagtca agtagaggcg gctaaaatac 180
aaattcgctc cgagtacgaa agaaagttta aacaaatcga gtccaaacta aaagtcgcgt 240
attctactga acttaatgcc tcaagactac aaatcctgaa acagagggaa acccttctta 300
aggagattta tgaagttggt gaaagagaac tttcca 336

<210> 3245

<211> 318

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D4

<400> 3245

cacgcgtcaa ccaaactggc gtcgtcgtag tacattcctt tgggcatact tgtacaacca 60
tgaagtactt ggcagcttat tttttggcta aaatgggaag caaacaaggc agacctactg 120

cagatgatgt gaagaaaata ttgacttccg taggtatcga agtagatgaa ggtcgtctca 180
 cgcaagtcgt ggaagctttg aacggaaaag atttgaacga gttgatcgaa caaggtttac 240
 agaaaatgtc tacggtgcct tccggtgcc a ctgcagctgt tggagcagca gttggtggag 300
 caactccggc agcacgag 318

<210> 3246
 <211> 345
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-064-Q1-E1-D6
 <400> 3246

agaatcccca aacgatgctg ttgggtcagg aacctagaca aaccacttcc aacgtgggat 60
 acttgaacaa accttcatt caagcgctaa tccacggctt aaatcgacat tattattctc 120
 tggcagtggc ttatcgtaag aacgagctgg aggaacaaat gttgctcaat ttgcataaga 180
 aacactggag cagaggctta aaagtgcag actttgaaga gcgagctgag aaaaatgaaa 240
 aggcagttca gtccatgttg gacttggcaa agagttatag caaatgttg gaagaagaac 300
 gtcaaagac aaaggaacag gctgcaattg caaatgttgg gaaag 345

<210> 3247
 <211> 323
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-064-Q1-E1-D7
 <400> 3247

agcccacgcg tccgcccacg cgtccgcaca gtctgtgaga tggcaacgtt gctgcattct 60
 agtcatggca aggcacaagt tcgacttgcc accgcagatg gaggaccagg tcgatacacc 120
 gaacttttcc aagaatttgt ggtccaagtt tctcatgaaa gatgcacgga atcgtcgttt 180
 ctccgcggt acaatttctca agtagtcaca aacgatactt agaaaaatat aatttactgg 240
 gtagtgaaac atcacgcttg tcaactcgggt gaaaaactgg ctatggacat tggttgtatc 300
 ttcatggcac actagacctt tgt 323

<210> 3248

<211> 323
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-064-Q1-E1-D8

 <400> 3248

 gaatggacga taaggaacta ggcaaaagga tatggtatct gcggtagaac atatgaaaga 60
 agcagcaccg actgttttagc aaaaacacag cactctgcag aaaagagaaa atgtaaagta 120
 tacagtgtgc ggcttgccaa atagtagaga agaaatcgat gaaagtgaaa gcgagtataa 180
 gatgaggtat agagaatggc ggtcctaacg gtaaggatcc aaaggtagcg aagtaaataag 240
 acgtttgaaa ggcgtccagt atgaaaggag aaacgagtgat agcactgtct agtcgtccaa 300
 ctcagcgaaa cagcaataac tgt 323

<210> 3249
 <211> 161
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-064-Q1-E1-D9

 <400> 3249

 cgaccacgc gtaagggcgg tctctgtcga tttgtactct cctttcgctt tttactaaag 60
 gagaccaggc ttaggtcgca ttatacagcc cttgaaacaa tttttgtcgt ctcgtagag 120
 acgttctcct ctacaataaa aactctatta tttttgtttt g 161

<210> 3250
 <211> 422
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-064-Q1-E1-E1

 <400> 3250

 gttatattat tagtcttttg gttcgttcta tacttgtgaa ggaaccatct tttgtttgta 60
 ttgtcacgga gtttatggaa cgtggcactg tccgagactt gttattatcc aaaagtcgtt 120
 tggaatggaa tattcgactg aattgggctt tggatactgc gacaggaatg gcatatttac 180
 attcattgga accttgtatt attcatcgag atttgaagac gaccaatctt cttgtagatc 240

gacgctttaa tgtagaaata tgtgattttg gtctttcaag gttcatgtct aaagattctg 300
 tgatgagtgc agttggcact gttcaagttg cagctccaga agtttgcatt cgtttggtat 360
 taattggctt tttgtggata acattgatga aaacaggtat ttacacatga gcgctatact 420
 ga 422

<210> 3251
 <211> 127
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-064-Q1-E1-E2
 <400> 3251

aggctatgcg tccgcccacg cgtcggcgca cgcgtcctgc gaacgaatca tcattggcta 60
 ggccagtcac ttgtgtgcag ttccatgtgt ctgacatgaa ctctcccaag acagactttc 120
 gtttgag 127

<210> 3252
 <211> 357
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-064-Q1-E1-E3
 <400> 3252

agtgaagca agccacagtg gaataacgga ggggaacatc aggagttggt ggaagaagaa 60
 gaagacaaag aacgagggcat caagtcggaa acgacacatt ttgcacatct gaaacatttt 120
 agtaatttga tttcccggga aggaactttt caggatctgc tgaatccggt tcgaaagtat 180
 ctgccttgg aggaatccat tcctcttcgt ttattggaag tgaaggaaca tttgattatt 240
 cgcacatctt ctccagacac tgcattgcgg tttcccacgt accctcatga tcgtctggaa 300
 gttcgagtgg aacgaattcc tagcgaagaa ttggaagggt gatacaaggg atactgt 357

<210> 3253
 <211> 215
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-064-Q1-E1-E4

<400> 3253

aggccaagca tcagatggct cctccttaca gtcgttgggc ctggacaatc gttgcaaaaa 60
ctgctctgag ttgcctccat ctctcattcc ttatcgctgc cgtagttgca gccgacgtag 120
tttcagagga gagatagggga tatactcagc atcctcagta agagcaacag tgacaactac 180
tatcttgaca gtaggcatac tatcaaagtc cagtc 215

<210> 3254

<211> 322

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-E5

<400> 3254

ggataatgag gagagcatcg tgtagcagct ctacacaaac cattacagaa acttcaaggg 60
ttctcaagtt agaccttacc aagaaaccag aagagaaagt tcgttggact ccagatacgc 120
atgacaatga aagagagAAC cgccgaaagt ctaaaatatg ctgtatattc cataagcgtc 180
gaaggcccgga cgactcttcg tctagtagtg actcgagtag ttgtagcgat gtggaacaag 240
acaacaataa taagtcgtta ccggaagaga agtgggctct tatggacaag gaaaaccaac 300
aaagcttcct atccgaagcc ga 322

<210> 3255

<211> 315

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F1

<400> 3255

agcccacgcg tccgcccacg cgtccggttg gtgaaatatg acaggaagag gaaaaggtgg 60
taaaggtctt ggaaaaggag gagccaaacg tcctcctaaa gtacttcgag ataattattca 120
aggtattacg aaacctgcta ttcgacgttt ggcaagacgt ggtggtgtaa agcgtatatc 180
tggccttatc tatgaggaga caaggaacgt gttgagagtg tttctggaaa gtgttattcg 240
tgacgcagta acttacacgg agcacgctcg tagagagact gtcactgcaa tggacgtggg 300
ttatgctttg aaacg 315

<210> 3256
 <211> 358
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-064-Q1-E1-F10

 <400> 3256

 gaccaacgcg tacggtacga caaagccaag tgaggaaccg aatgcaggta cagggcggcc 60
 cgatagacag ttgtgaaaga gtgggagaac atgagcgcac agaagaatgt acgaaatggt 120
 tagagtaatg gccatagtgg aagtcatagc gggaatctga gaggaagaca gccacgttgg 180
 aactgagaaa aggtccaaac aagagacgtc agcagtgggg aaaattgggc agtggtacag 240
 ggaagtatga cccaatattg aagactggag taaacagtag aggaagtaaa aggagggaaat 300
 gaagggaagt tatggcagaa acacgtgccg gcagcagcgg taaaacctgt gtagcaag 358

 <210> 3257
 <211> 385
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-064-Q1-E1-F11

 <400> 3257

 cgtcgcaacc cgtcttagtg ctttgcgact tccaaaatga tattatgggt ttcgttcccc 60
 ctgagaagaa ggaagccgtc attaaaggag cttcgaaact tttgaacttt gcccgtaga 120
 agaagatccc tgtagttcat gtgggagtag gttttagacc gggacaccct gaagtttcga 180
 aacgaaacaa gatgttttct cttgtttcct ccagaggccc ccatccttgt ggaaggtact 240
 cctggaagtg accacgtagc agagttgaaa ccaattgaag gtgaattcag tgttacaaaa 300
 agaagagttg gagcacatta taataccgat cttacaacca ttcttagcgc tttgggcgct 360
 acccacctga ttttggaag tgttt 385

 <210> 3258
 <211> 327
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-064-Q1-E1-F2

<400> 3258

ctcagatact actatccgac cacaggatga cgaagtagtt gcaatgataa aagagttggt 60

ggagacaaga attaagcctg cagttgcaga ggatggagga aatatattgt atagaggatt 120

tcatccagat acgggtattg tcgatttga gttgcaaggc tcttgtacta cttgtagttc 180

gagtgtagta acgttgaaaa gcggagtaga gaatatgctt atgcactata ttccagaagt 240

caagggtgtg agagaagttg taagtgaaga gagagaaagg atggaacgag taagtagaga 300

gcagctgcaa agtttgaac aaagact 327

<210> 3259

<211> 328

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F3

<400> 3259

agccccacgcg tccggtgaaa gtgacagcga cgagagttgt gccagtgacg acaagacgat 60

gaaaccttgc accaagagac ttgcttctag aacaaaagtg atgaagtgtt cgaattgcgg 120

ttcccatact ttgtttcctg tggacgatga agaagagtgg agcaatggcg cgctgcagga 180

ttcgacggat agcgatatta gtacttatat gcctctcaag ttttgaaga tactgaatag 240

tggtgaaggt cgagatagcg agaaattgtt taggtttaaa cgaactcaag gaaattgtgt 300

cggaggcact gtccaataag actcgcca 328

<210> 3260

<211> 333

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-064-Q1-E1-F4

<400> 3260

acgcgtcagc taattgtana agaatggaaa ctttcgagtg ttttgacaga aggccaatat 60

cgtctgtttc agtggatagt ttttcttga ggttctttt atggtggttg ggtgctttag 120

tctgagcata agaatagtcg actttatgcg gccaaaggaag aagcttttat tgctcaagaa 180

aggaacaaag aaaggcccat gagtgaagaa tactggagag aattgcaaga aataaaacct 240

agaaatttgg aacagttgta caagatgaag caagaagacg ctgcaaatag atcagaaaaa 300
tatcaaaggt ggaaggaaaa cctacttggt tta 333

<210> 3261
<211> 324
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-064-Q1-E1-F5
<400> 3261

agcgcatttt tacgcattgt tggttgaaac gatatggcag agaagttgac agagatcaag 60
gataaagttg ccgataaaat aagtgaaatg actggaaaca agtcatctca ggaccaggcg 120
aaggataaag ctagcgaggc aggggaccgt atgaaggatg caggaagtgc tatgaaggaa 180
agtgtcaaaa atgcagggga cgccgtcaag gataagatgt ccagcatgaa ggagtctgtt 240
tccaacaaat cggaaggtgt gaaagaaggt ctgcaaaagt agatactccg aggttatctc 300
atttgtttcg tcttgtttgt gttt 324

<210> 3262
<211> 345
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-064-Q1-E1-F6
<400> 3262

acgcggacgc gtgggtttgt gggtgctgtt ggtgatcgac acgaaagata ttatcgtgaa 60
ccaaattcat ttatatatca ttggagaatg actcccaaaa aggaaacacc gcatactccc 120
aaaggaggct atgcaaaagc tgtacttgat agcattgttg ctctgaagga gaggaatggg 180
tcctctccac aggccatcat aaaatatgtc aaggctcaca atccgcagct tccggaagac 240
aaacttaaac ttcaactaaa gttagctttg cgtcgtttgt taaagcagaa gcttattgag 300
aaggtgaaag ctctgtataa gattgctagc aagagtagta gagtt 345

<210> 3263
<211> 320
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F7

<400> 3263

gttggttcga cgaccacagt gtgcagttgg cagtcgatat atttcgagta gacagaaccg 60
tgtgagtatt ttgaccaggc ggaagaggga aaacttgggg aggtatagac acctggggac 120
aacgactggt tgtttgtctg acgtgccaaa gaataatgtt ggttatgaag gagatggttc 180
agagtctagg gagaatgtat cacaaaaaag ggatagaagg aaaatagcgt caagtgaaga 240
agaattggca gctctacaga ctttgtcttt agagggcttg ttgagttatt acgagggaaac 300
tcccatgttt tcggaggaag 320

<210> 3264

<211> 423

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F8

<400> 3264

gacccaaacg taagcccacg cgtccgcca cgcgtccgca tcggaatgct gtcgctattt 60
gttggaact ggtttaacag caatacagga agaattggaa tgggaaaaaa acattgcata 120
gctaaaggta tcctctctct ctctctctct cataggacga gtgatatgag aatatataca 180
atatatatat ttgttggtag aaatgttcaa cttgatgttt ttctcgcaa tagagaacaa 240
caaacaaggg gcacaaacaa ggtttccatt gcaagatgtg tttgcagtat ttgtctctcg 300
cgggtgaaat gattagttgt tgctgtcttc tcttctatg atttgagagt gatgatgatg 360
attgttacgt gttgttgttt ggtgaaggag taataaatgt agcttttgtg atttgcattg 420
atg 423

<210> 3265

<211> 384

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-G10

<400> 3265

gaccacgcg tacgcccacg cgtccgggaa aagtcgacgt gaagtggagg aaattttgtg 60

tttaatggaa tctgatggaa tagagccgga tagagttact tataacacct tgataaaggc 120
 atatggctac atgcgtcggc atgatctcgc agaagctacc ttttaagcaac agatttccaa 180
 gtttggaccg cagttggttg gctttaatac cctaataaat ggatactgtg aagactaaaa 240
 agtttgctcg tgtcttggaa ctatttgccg aactcaagga attgggtttg aaaccagatg 300
 ttaaaacgta ttctactatt atcaatggac aaatattgtc tggtgagaat tcatctacag 360
 tcatgtgttg gtatcgacag atga 384

<210> 3266
 <211> 380
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-064-Q1-E1-G12
 <400> 3266

gaccacgcg tacgcgagc cgtgggtcca cataatgata tgaccacctt agaaaagttg 60
 ctggcagaaa cagtttcgaa tgatccatt tcgggtaaag tgacacaaag gagatttatt 120
 atcgtggaag gaatatcaag caagtttgcg gatgtgacac ctttggataa agttgtggaa 180
 ttgaagaatc agtaacgttt tcgattgaat gtgggacaaa gttattcggt gggtgggtcac 240
 aaggaaaaca ggtcgtggaa ccttagaaca ttttggattt ggaaacaaag atgcagatat 300
 tgttttggca gatctgggaa atgctattgc aactgtgggt ggattctgct gtagtagtga 360
 agaagtagcc aatcatcaac 380

<210> 3267
 <211> 362
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-064-Q1-E1-G3
 <400> 3267

agccacgcg tccgcgagga gagagagaga gacagacaga tggccaacgc tggtaagat 60
 ggccttgctc aagtcaaaa acatagaaaa gtaaacagat tgcaagaaga taatattttg 120
 aatagagcac tatcacaacc aggaggtaaa gtacagaaaa ctatccagtt atccattcat 180
 agagtctatt agatgtattt ctgtgctttt gcaacatcca gttgttggtg aatgcagaaa 240

<210> 3270
 <211> 379
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-064-Q1-E1-G9

<400> 3270

 cccacgcgtc cgagaatttt ggggttgagg aacagtgcaa gttgggatgg aaacgcctaa 60
 ctgtagttca cgattgatac tgctgttttg tttggtcttt ataacgacta taactttggt 120
 aaatgcaaaa cgaaactatt ataaagtgtc gggcgtggaa aagaacgctt ccgagagtat 180
 gtggtttagc gttcattctc caagtttctt tgacttttgn ttaggagaaa ttaagcgcg 240
 gtaccatcaa ctagcaagga agtatcacc ggacaagaac ggcggtgaca agaaggcgga 300
 actgaaattt cgagaaatag ctgaagcata tgaagtccta tcagaccac aaaaaagaga 360
 aacgtacgac ttgtatggc 379

<210> 3271
 <211> 328
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-064-Q1-E1-H1

<400> 3271

 agccccacgcg tccgtgtttc gtcagagatg gacgccgctt ccacaaagga ggaaagaacg 60
 tgcggtatac atataaagtg ggagcaagtg tttgaccag ggaccatgaa aattgacgga 120
 aaattcgcca acgtttggtt ggaaggtttg cccaatctct tcgctgagtg ttcgagaatt 180
 gaagtttcgg agctccttgg agaaagagtc aaggtcggaa acgaagaatt ttttacatgg 240
 gccgaatcac tgagggccgc ctcttcaatt ttgtatccca agaattttgc tgaagacttt 300
 cctttgaagc gttccggcaa tgaaattt 328

<210> 3272
 <211> 349
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-064-Q1-E1-H11

<400> 3272

agacagaagt tttgggagaa aggtattatg gaaaggtgta taaagctcaa gatattagaa 60
caaacgaaat tgttgactg aaaaagaccc ttttggtaaa cgaagacgaa cgcgtccccg 120
caactactct gagagaagtt tctatcttaa gagcactttc agattgtccc taaaatcgta 180
aaactatctg acgttcttca cactgcatcc agaaatggta aacctgtatt gtacttggtta 240
cttgaatact tgggacacga tctcaagcac tatatgattt cgaagaacgg cagaggagta 300
tgactcgata agaaacaagc tctggtgtgt ttgctgaaaa taaattttc 349

<210> 3273

<211> 383

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-H12

<400> 3273

gaccacgctg acggacgaag aggatgaaga cgaagacgaa gacgagcagg atgaagatga 60
ggaggaggaa gacgatgagg aagaagaaga tttaccccag tctaagagaa agcgatctaa 120
agactcaaaa aaggaagtgt ccaaagcatc agcaaaaggt catggaggcg gaggtcttcg 180
tgctgcagcc aacaaaagac gtctgttctgg tgaagagtcg agtgatgatg atgatgatga 240
aatgagcgaa tccttgaaag aactcgact gtctgattaa agggcacacc gcaatcttac 300
aaaagttgtg taaggaaaaa gagcagtgcg gccaatatga atttgttttc agcttctttt 360
atatataaaa gcattggctc gca 383

<210> 3274

<211> 409

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-H2

<400> 3274

agcccacgcg tccgctagtc tccccggata gttgtgaata ttccattgga ctggcatttt 60
tccgttttga agcttgattt agttgcgtcg ctttgtttgc cactttgtag taaataaaga 120
aaagactcag gagatatctt tgataaagta tggggaacag ttcctcttct agtgcggtggg 180

accttgcac gaatggcaca ctgggacccat attacatgaa ccacagtgtt cccaggagtg 240
accgtttgct ctatatgacg aatatgtttt cgcgctcttc aagtaataga agaccgcgaa 300
acagcagggc cagaagcaga catagtactg aagaaccagg gataattcca actcaatttt 360
atctggatga gagcacgttt ctaaacttga tacagaatag aatagttgc 409

<210> 3275
<211> 348
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-064-Q1-E1-H4
<400> 3275

cggctcggcc cacgcgtcag cccacgcgtc cggaacaaaa cctcccaaag tcagagaaac 60
cagtacagta gcagttgatg atttgaagcc ttggaagaga gaagacgacg atgatccaac 120
tttatcagaa ataggtcaaa agaatttgca gcagcagcaa cagaatgctg taaataatat 180
gaataataga aaggataaca agaacaagac agtagatatg accaaagagt tttttagggg 240
gcctccaaga cgtggaagag gaggaatatg tcgcggtatt ggggggaata ggagaagagg 300
aagaggaaaa accggtcctc caaatacttc caataataac tatcgacg 348

<210> 3276
<211> 139
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-064-Q1-E1-H6
<400> 3276

atattctatt ggactggcat ttttctgttt tgaagcttga ttttaattgcg tcgctttgtc 60
tcgcactttg tagtagatac cgaggcgagc cacgagtata tctttgagaa agtatgggga 120
acagttcctc ttctactgc 139

<210> 3277
<211> 398
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-064-Q1-E1-H9

<400> 3277
gacccacgcg taagaaaaaa tgttcgtgtc ttactccgta cctgcaagaa acttaccggc 60
tttggcacgt aactttttcca atgtctgtct ctcgaggagt ggtctgagag ggggatgttt 120
acgaaatgtg aaagttttca accacaaacg acctgcaagg ttgttatcta cgaaaatgag 180
aggaggcgac catgaaagga gagaacttag tcgtcctatg cgtacgcttg atttaccgct 240
ttcgacgaac ttttagcttt tgcgcaggat ccttgggtcca tgtttcgctc tccatggagt 300
ctgtcgccca gaagtatggc agtagacacg tggatgcctc gtgttgactt ggtggagaag 360
gaagatggct tttatgcata cgtggaacta ccaggact 398

<210> 3278
<211> 269
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-065-Q1-E1-A1

<400> 3278
gcgtccgccc acgcgtccgc ccacgcgtcc gcgaagaaag aaacggatga cgtggacagc 60
gatagtgaca tagactcgga gtggagtgcac ttggaagata atgagaccag ttgtcccgag 120
caagttggtg cggttgctgg ttcttctgtc gtgaaaagcg gcatttttgt gtagagagtg 180
tgtacagagg tttcatacca gccgtgttca attgtggtgt gttggtgtac ataaccatct 240
acgttttggg gctgtgttgg gcctaacttt 269

<210> 3279
<211> 378
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-065-Q1-E1-A10

<400> 3279
agcccaagcg tccgcggacg cgtgggcaca acttggggcg atgacaacaa cgagcaacaa 60
cgctttgtca tcttcttctt cctccaaaga aacgcatatc cttgtagaaa caaatccttc 120
tcaaacagag tggagaatat ggaaagctca aaagaaactc ctagtagcct ccattctttg 180
tgcgttgttt atgtttgctg aaatattggg aggatacttg gccggttctt tagctattat 240

gacggatgct gcacatttac tttccgactt tgcaagtttt gttatatctc tggttgcctt 300
acaccttgcg aaacgtcctg gaagtactac tatgagcttt ggttatgctc gagctgaagt 360
tattggtgca tttgtgag 378

<210> 3280
<211> 313
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-065-Q1-E1-A11
<400> 3280

gcacgcgtca gcccaagcgt ccgcggacgc gtgggtttgg ttgttttctt ggtagcagtt 60
gtacattcaa catcatcaaa tgccaaaggg aggaaagaaa gattcttcaa agaaagaagc 120
cacaagtaaa cctgcagcag cagatgctac aaagacgaca gaaaagtctg gtccggaagc 180
caagttgaag ggaactggtg caaagaaaca ataaaaagtt gactatgcat gttcctgtta 240
tgttttgtga gttctgtttg atagtttcca gctattcttt tggtagtgaa taaagagaaa 300
attttttata ttt 313

<210> 3281
<211> 370
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-065-Q1-E1-A12
<400> 3281

agcggacgcg tgggcggacg cgtgggacgc aaagtaattc tgagatgaat gatgatgttt 60
accattttta tgaagaagaa gaagatgaac aagctgaaag agctagaagt agtcttcgac 120
gttctttctc acctattgac gattctgaca attttaactc gtcggaagat attattccag 180
aagatgatcc acgtatgaca gatgaaattg gtgaagaaag ggatcgaatg tttgatgatg 240
ccgacaaaaga aaatactctt ctttctaattg acatgatgaa tcttgtcaag gacgcaattg 300
acaaggcaac ttcagaaaag atgagtgaac aatgttcctt tcgagaagtt atgaatgtgt 360
tggaacaaaca 370

<210> 3282

<211> 111
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-065-Q1-E1-A3
 <400> 3282
 ctcagtccttc cgttgttaac acagagccac ggtgatgtca aggggacaaa agacagttct 60
 tgaaaggacg atcatctacg agaaacccga cttactccaa catcgttcat t 111

<210> 3283
 <211> 324
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-065-Q1-E1-A4
 <400> 3283
 agcccacgcg tccgtttttt ctcttacaaa tgtggaggag gatgacgact gtgagcactc 60
 gtgtcatcaa gtacaactgg aaagccctgt cttgtattgg aaagcagcaa caacaaccaa 120
 cacaagcctt ttctagtgtg caaaaatttc aggaagagtg gttaaagttt ctagtatgtc 180
 ctgtttccaa acaaactttg tactatgact cggaacgcga tgaattattc aaccaatcga 240
 taagatatcc agtaagtaca agtcatataa aatgctttat tttctatcat tgaaaaacaa 300
 gtatctcctc cttgaagcaa acaa 324

<210> 3284
 <211> 417
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-065-Q1-E1-A6
 <400> 3284
 gctaagaatc ttgaagaatg gaacgaaata aaaatcattc agactcgagt tttcaccatg 60
 aaagaacaga aacaactgaa gagtcgacgt cagtcccgac ggaaccttgt atgggagagt 120
 tgcagcaact tctttcagtg acacttgaaa gaagccattt ggacataagg aagcttcaac 180
 aagcagcgaa cgattttcgt ttatgcgcaa agacgtttta aatatgtgat gtgaagttgg 240
 aacaaagttt tctcaaaaag tcaagtgatt agacaccctc atgggtttttc attgaaataa 300

ctggttgctc ttccttgagg caacctatatt attacgaaaa ttcctgcac cttctcttac 360
aatatgaggg ttccttctgg atatggtgag ttttcattga nagttttgtt gggtgcc 417

<210> 3285
<211> 213
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A7

<400> 3285

ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaaa aaaaggaaga aaaacaaaaa 60
agataaaaga ttaaataaac gtgaaagcac agctaaaaac tcgggggaggg tgcccttgaa 120
ggttcaattc attggtccgt cgctttacaa ggtcggccct gttcaaaggc ggccgttact 180
tacctttcac ggccgggcgt ttacccccct ttc 213

<210> 3286
<211> 391
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A9

<400> 3286

agcactcatt tgtgtgcagt tcgaagtgtg gcaaatgagc tctcccaaga cagacgttaa 60
taagagcagt gacgaaggag tgaatttggg tccacttgca gtaacaagtg gccacgaaac 120
gagagatttg aagggaacta cgtctgcaag ggcccgaaga atgagtatgg aagagagaaa 180
tcttgttctt ttaaagagga agctaagaaa cagagcgtct gctgttcggt ccagaaaacg 240
ccgcttggaataaattgaga cgcttgtaaa tcaagtgate gaactatctc acttggtctc 300
acgactggag gacgacttc gactgttaga gagacatgga cttactactt tgcaagacag 360
ttgcgtgaac ctatcgaata agaaaacctt a 391

<210> 3287
<211> 386
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-B1

<400> 3287

atcaaactac attgcgatgt gggatgcggt ttcaataaat gttgaggaat tactatccga 60

aatttggtag cttccttcaa tatatcatca caccctattc ctcgacaact ccaacataag 120

cttctacaag tcacaaaaag gttctttcca cgggtgcaga agaattcggc ttctgtaagt 180

gcaaggggtgc ttatttccat ggatataaaa gataaataac ttatgcaaat aacgcctac 240

tattttacaa gactgaaaat cgtggtagcg ggtatcgact gactaagggt tgatacacga 300

ctattgggct tgcgtaacgt ttgctgagct tcacaaaaat cgactagttc catactactg 360

tctgggtactt ttgtgcttct ccaaac 386

<210> 3288

<211> 400

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-065-Q1-E1-B11

<400> 3288

acgcgtcagc ccaagcgtcc gccacgcgt ccgcagaaga gaagctttcc gaggagaatt 60

ttgtctgcaa tagtatgaag caagtcgtga ctgacacaat agacttgcta gaaagagtag 120

agcagagatg catagaatgg gacaaaaaga cagaaaagct ttcaggagga gtgaaacaag 180

aatatttgct gtttttggtg ccttttggtg atcagcggtt tctcgtgtgt ttgtttactt 240

ggaacgctct gttgattgaa tgttttcatt ctaatttctt tgtagtcgaa accattcgag 300

ggtttgttac actgactggt ggtgcccctg ttttagctct tgccgctagt ctttcgtttg 360

cgcattatta tcgacgcana agtatgccga tttttgcaaa 400

<210> 3289

<211> 397

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-065-Q1-E1-B4

<400> 3289

gtggaaagat tctgtcgtgt atccaatgtg gagagcaagg gctgtgtgct ttattccaga 60

aaacattccc agactctgaa attcgcatTT ttccaagtaa agccctgtcc atgactgcgg 120
 tctttctctt tctctctctt tcgagagatg ttgcagaaat actccaactg aaatgttttc 180
 aaaggcgggtg catgttttca ccaacgtttt cccatttgga gcttccaagc ccgccatttc 240
 ttctacgcac ccttttctta cccattttg tgtctcttac tcaccaaggc atggcggggtt 300
 tagaagactt ttatgacccg acttgtgggtg cagaatatca naatatagtg ccagaaaaaa 360
 aggaacctgt agaaaacaaa ccagattcta ctcgaaa 397

<210> 3290
 <211> 401
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-065-Q1-E1-B6
 <400> 3290

cccacgcgtc cgcccacgcg tccggcctgg ttgaagagta ttactcgatt acctattctt 60
 gtgaaaggag ttgttactag agcggatgca gaaattgcag ttcgtaatgg agtagctgggt 120
 attattgtga gcaatcatgg agcaagacag ttggatactt ctcttgccac tattgattgt 180
 ttggaagaag tagttgcagg tgcacaaggc aaagttcctg tgtttgtaga ctctggagta 240
 cgtcgtggta cagatatagt gaaaagtgtt gcaactgggt ctcaagctgt acaaattgggt 300
 cgtggtgtct tgtgggggtt agcagttgggt ggggaagaac gtgtggatct agtgttgaag 360
 ttgcttcgtg atgagtctga gttgggactg ggaacttggt g 401

<210> 3291
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-065-Q1-E1-B8
 <400> 3291

cggacgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcgtgggca ataactgacg 60
 aaaagaagaa tgttgcgttg gtggagaagg agcgaactgac tgctgacgaa agaattattg 120
 acattgtgcg tgactaggaa aacattatgg aaagtgctag tcaattgtat ccagaaaatc 180

ctaagaaaaa tattctcctg gttggcactc caggaacagg aaagacaact cttgcaaaga 240
gaattgctgc tgtcacttcc ttgacacact tggaagttgg aaagtttgct gaagagcaca 300
actgtttggg ctgttacgac gagcagttag attgcttcga aatagaggag gagaaactta 360
ttcctttgct ggtaaacgct ctganacctg gaggctttct tgtggagtat catgga 416

<210> 3292
<211> 190
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-C1

<400> 3292

ctgcatcaga caccgagcgg tggtgggtgt tgtttggtga gacaacacac ttgacataac 60
actgtataat aatgtatgtg tttgtagcag tcagcgtgtt gataacgata aactattctt 120
tgcatatgtt tcaacatgtg ctgcaaaatg ccgtaattaa gatcaccgga tcaacgaacc 180
cccctatggc 190

<210> 3293
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-C10

<400> 3293

ggtcaggaat aacgggtcgg ccacgcgtca gcggacgcgt gggcgagaac gatgcttata 60
ttatggtaga tatggcacat atttcaggtt tagttgcagc aaaacaagtt ttatcgccgt 120
tttcttatgc ggatgtggtt acaacgacaa cacataagag tttacgtgga ccaagagcag 180
gtatgatatt ctatcgacgt caatgtcttg cacaagttag acgaggagaa gatttggagt 240
cgttgattaa ttctgcagta cttctgctt tacaaggagg acctcataat catcagattg 300
cagcacttgc agttcaactt gcacaagtaa atacacctga attcagagaa tatgcgaaac 360
agatcatatt aaatgccaca gctttggcga agtacttgag ttcgttgggt 410

<210> 3294
<211> 380
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-C11

<400> 3294

agcccacgcg tccgagcata tgaactgggt tgcaatttat ttgataacgc tgaaacttat 60
gcagctggag cagcagagtc tatcatgggg gaggcttttc atcgaggtgt aaaggagggc 120
gtatggacaa gagaagactt ggtgttgact acgaaaatat tcttcggcgg aagaggttca 180
cgggactgca agcctcgttg aagcgtatgc agttggatca tgtagatgtt gtgttttgcc 240
atcgcccaga tccacttacg cccatcgaag aacagttcg tgcaatgaat cacgttattg 300
accgagggta tgctttttac tggggaacta gtgagtgggc tgcacaagaa attacagaag 360
cttgctgagt tgccgatgtc 380

<210> 3295

<211> 409

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-C6

<400> 3295

agtttggacg aattattgcg caatcgatac gtcctaaatg tcacgagggg ttgggctgta 60
ctcaattatg acgaggtcca ggtaactcac tcactgacg gagtccctag agatatcata 120
gaaagtgaag tagtacgtat tccagccgct caaaggcctg cagatctttt ctttttgaga 180
gaaaattcgt tgttcaagtt ttggcatcgt gagttgatgt ctcaagttat tcatcatgca 240
cagaaacgtc gtcgcctcat catggccgag catacgaaag ataccgcgaa acaaccattt 300
tgctcgtgta tgtagtagtt ttgctttgtt ttgtgtagta gttagttgtg tttcagcgga 360
aagggcacgt tttctttctca ttatggacat gagaacatag atgttttgt 409

<210> 3296

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-C8

<400> 3296

cccacgcgtc cgcccacgcg tccgagtaag tgcgcttggc agcaaactaa aagatggcaa 60
gaagaatcat cggagcttat atgtctgacg ctactgtagc gtctctatctt agcgtgaaaa 120
tgttgttcta ccttacaata cttgcgttct ctatcactat tgtgggtctt atgggtaaga 180
gttccgacgg tatttgggtt cacagtgttc cagcgaaaga cgaatattgt gcatacaagt 240
cttcccttca agtaaaccac cacggcatag cttcctattg caagtatatc atggctgtag 300
cagctattgg tttggttata agcttcttcg agttttggta tgcattcctc ggaattttct 360
tcaagtggca acaaaagttg tggatatattg aatctgctat caacgtgttt t 411

<210> 3297
<211> 375
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-065-Q1-E1-D12
<400> 3297

ageggacgcg tgggtctcga agcaaaaagc cttgaattgc ttctcttttc tcgagggttaa 60
tatacagttg ttgagtaa ataccgttgt gtcttatgat ttccacatta cgctgtagtt 120
ttattaaagt tattgtcaag agattatgaa gctcaatgac gaaaaaaaaa atagtttgtt 180
gacacgtttt ctccgagcga attttttttt gagtgaggat tacaagttga agtagttgtg 240
gttgtctcaa gcttttgccg gtttcttggg atagaaaaac cgtccattct tatcttgttt 300
cctagaaaaa gggtcacagc gttgtgagta tcattttcaa gcgacgcatt gttgttttgg 360
aaccaaaagt tattg 375

<210> 3298
<211> 289
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-065-Q1-E1-D5
<400> 3298

acgcaacgcg tccgcccacg cgtccgatta cgtggacgtg gcagcaacat attttacggc 60
aatatgaatc aactaagcca agtgggtctca cacgtaggta ccgtgcagaa gaaacccaag 120
aaatatcata caacacatgg atgatctttc caacctgacg aaaatgggtg atgtcatagc 180

taatgtatgg ccaatcagct atttcgagtt acacctaagt tctggacgca tcaatgacaa 240
 tgctcaatgt cgcatattag attcctggaa ttaggcatca cttctaatt 289

<210> 3299
 <211> 383
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-065-Q1-E1-D6
 <400> 3299

aggggcaacc aactaccacc aaaagtagca actgcaagga agaacagagt gtcctaaaga 60
 atagcaagtt gtgatgagga gaattggtag caaactcttg tcttattccg gcaatgaagt 120
 aaaacttcgg gatgttgttt cttctctaag ggagacgagt aaagcgacgg ggtcttccat 180
 ccggagttgg cttcgtgata tcaaccagtg gtatgaagac acttactata aaaagggaaa 240
 ggtggatcct ttggtacatt atatgttact ttgttttgga gtgggatata ccatcaatta 300
 ctcccatatc aaacataaag tggagcataa gaatgacgat atcgaaagct tgtaaacgtc 360
 acctttgttg tgttgttggt gat 383

<210> 3300
 <211> 394
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-065-Q1-E1-D7
 <400> 3300

agcatgttcc ctttcagctg agtgtactgc attccataga gcaactccac tttgcaaagt 60
 cttcgagtcg tcctcttccg tttcagactt tgcattcgtc ccgtcctggt gcaatctttc 120
 gcgaaccatc gataatatag aatcccgggt tcgtttctct aacttttcca acttcttttc 180
 caccttcttc ttcaaattcca agttactcac ttgcggtata aggagactct aaaaaacgag 240
 attagatatg aacgacgaac gataacctat acttaacgaca ttttcttttc ttttcttttc 300
 aaattccttg atttcttctt ggaaaatctc gttttgctct ttagtcactt tcgttactat 360
 ttcttcaggg tcgacaaaact ttcgtaaaac taag 394

<210> 3301

<211> 361
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-065-Q1-E1-D8

<400> 3301

gaaagtactt tggtaagaga ttgcaatagg tcttgcgacc agataagtaa gcgtgtgtgc 60
 atgagtgaag agacatccga gcacgaagag aatgtaggta aataggatag gactcgaaat 120
 cacagtgtaa cgagagtann aggacgcaga gatctagaaa gagagaatgc ctgaggtgtg 180
 agtactcgag aacaaggtcc aggggaagtag aaggtaacaa tgaggaaaag tttacaatat 240
 aaagggatat atggaacaga gtgtaaggct gcgtcatact agaaatccga taggagtaga 300
 gaatgagaga aagttgtggg aaaagaacat aacagcagta ctgaggaccg actcaggtac 360
 t 361

<210> 3302
 <211> 197
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-D9

<400> 3302

cacgcgtcag cccacgcgtc cgcggaacgcg tgggctcatg ggaaggttgc atggcacctt 60
 caatttggtg gtttgaaaat aactacgaaa tagtattcag cgcaagtttt tacgatacaa 120
 gaataaacat tatgtgttat acttaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa 180
 tgacgataac acaaaaaa 197

<210> 3303
 <211> 355
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-065-Q1-E1-E12

<400> 3303

agggtaaaca tgtggaaaag agcaactgtc ccaacactag gaagaatata ttaccctaag 60

cggttggttag aaacttttgc caagaaagaa acaaccaagt tgccagttgt tcacaacttt 120
gtgggaggaa aatttgtggc aagtcagggc cctattagcc agacagtgc caatcctgcc 180
actggagaaa gccttcaaag cgtaccttcc actaccaaac aagaagtgga ccatgtagtg 240
caagtagccc aagaagcgtt tgaaagctgg tccaaaatgc ctatgggaag gcgtttgaat 300
tacatttttc agttgcgata gggagtcang aaaagatccg cggaaattgc ccaag 355

<210> 3304
<211> 419
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-E6

<400> 3304

ggagaaaaag acgaagactg ttggtggctc gatgagtaca acatttcttt gtccattcct 60
acccaaactc aactattgga aaccactttg taataaaagt aagtatggga gaatgacagt 120
ggacaaggaa aggaaagaac ctacctctc ctaccagca gagtgggaac agcatcgat 180
cgtccagtc aacttgtttc gtcaacaagt agaaaccttt ttgcgtccta ttccaaagga 240
tgtgcaaaa agaattggaac gaattgcgga agccttggtt ttacaacctc aagacacgtt 300
gatagatgtg ggttggtgga caggagccat ggtacctttt attcacaagt atattccttt 360
atctcacatt tggttggtg actgcagtga agccatgtca gaacaagcca agaaaaggt 419

<210> 3305
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-E7

<400> 3305

acggatggaa actctggaac agactcctag tcttcaagca gcaaacagga tcaaccaact 60
gctagaaact caaacaacaaa cgatagaaaa acaaaagaaa aagatacaat atgaagtttg 120
gaacggtgct gagtggacca acaacagcaa tctagaaaaa atagcatgcg tcttgacaga 180
gtgtgaaact cttttgaaag atatgcaagc gtttcgtcga tgtatttatt cacaaattca 240
aaaccaccag acggaaacat gtttcattcc tacacagttt ttcgaagctt ggtctgcttt 300

gatgaaggaa ttggaggaat gtcactctgcc gcctttgctc gaacatttgg tgacgtatga 360
catgtccaaa caaccattcg atgaaactct acagagactc gaacgttgtg tatect 416

<210> 3306
<211> 408
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-F1

<400> 3306

agaattgctt cagcttgaag atgaactcca aactacccc taatccaatg gaaatagagt 60
cactagagac taaccaagaa agagaaacca acgccccaga agtatgggaa gaagaagaag 120
aggatgagggc aaccaagaaa gatgatgggt cgacaagggt tctcaaggta tttgcgggtca 180
tagctgggtg gggctccact ttcttcggag tagatacttc agttattgga ggtgcagctc 240
tgtatgttca acctgacttg agcatttctc ctttgcagtg gtcattggatt acttctgttc 300
cacttttggc agcatgcttt ggtttaggaa cctccatacc ctttgtttac cacattggga 360
gaaagtatgt tgtcctttta gctgctgttc tatatcgggc tgggtgcta 408

<210> 3307
<211> 205
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-F10

<400> 3307

catcccgctg ggacatttgg cgttttctag cgacgctggc tatctattct tcggtgcaca 60
ctacattcac caagtacctt ccatagacca tctcactggg gtgggtttac tgggtacattg 120
tgtacttggt ggtagtgtg tgccttttgt ggtgtgcacc ctatggttga ctccacgcac 180
ggtcateccac attcgtcaac atgtg 205

<210> 3308
<211> 415
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-F3

<400> 3308

agcaagcgta gagcagaaga actgggtgta aaggtcgagt agtagagtaa gtgtaaaagg 60

gaaaggaaag gagagaaaga ggaaagggat gaaatgcaga gatctctaga gaaaggcaag 120

aaagaaaaga aaggaagaca cagtaaatga ggcgagaaag cataggaagt gaaacggatt 180

aggaacccgt gtagtctatg cagtaaaaga aagaatgagt aagaaaaaag ggagtcattc 240

caccagggga gtaaaggcgc aagaaagaaa ccaaagcaa ttgacgggaa tcggaaaaag 300

gggtggatca cgtaaattaa tccgatataa accgagaacc ttacctctcc aagaaggtgt 360

tgcacggctg tcgaaagaac gtgctgtgaa gtgagagaac gtacgagaaa gccaa 415

<210> 3309

<211> 406

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-065-Q1-E1-F7

<400> 3309

aggtccaaac aagagaagtc agcagtgggg aaaattgggc aatgtacaag gaagtatgac 60

ccagtaatga ngagtggagt aaacagaaaa ggaagtaaaa ggagggaatg aanggaagtt 120

atggcaaaaa cacgtgccag cagcagcggg aaaacgtgtg tagcaagcgt agagcagaag 180

aactgggtgt aaaggctcgag tagtagagta agtgtaaaag ggaaaggaaa ggagagaaaag 240

aggaaaggga tgaaatgcag agatctctag agaaaggcaa gaaagaaaag aaaggaagac 300

acagtaaatg aggcgagaaa gcatangaag tgaaacggat taagaacccg tgtagtctat 360

gcagtaaaag aaagaatgag taagaaaaaa gggagtcatt ccacca 406

<210> 3310

<211> 336

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-F8

<400> 3310

cttagaagca gcaaaccaga gaggaaagcg ttaaagcatg aaagaaaaga aatccgaaaa 60

agaagagaaa aaggtaagaa agaggaccga atcagggttaa gaggtagagg agcaagaaga 120

gaagagagaa tgctgggtgg agtagcgaaa caagagaagg gaagtaaaag gtaagaaaga 180
 ggaaagggttt acgagagaag gaagtagaaa gaagagagtg taaggcggcg tcataataga 240
 aatccgaaag gagtagaaga aaagagagag aagaaagaaa agaagagaaa agccgtactg 300
 aagaccgaca caggtactcg aggagaaagg agaccc 336

<210> 3311
 <211> 394
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-065-Q1-E1-G12
 <400> 3311

gggtcggcca cgcgtcagac cattgtcata tatgaatgat caaagtttct taactggacc 60
 acttccaaaa gatattcata gtattgccta ttctcgtctc attttacagc gcttggaagc 120
 gaaactgggtt gctaatttgg caaaggaaat cgaaaagcgt agtaaacaag gcaaattcctc 180
 gtttgaagtt tggaacgaat gtttagactt ggctgccgaa gttggaagag cacatacgga 240
 gttgctaata gcagaacttt cggaacagtt gatacaacga gctagtgtta ccgattcttc 300
 tgtcggaaac attttgaaac agtgtcaaac gctgtttctt ttacatttga ttgacaaaca 360
 gtcgattttc ttgcgttata attgcttata tcct 394

<210> 3312
 <211> 79
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-065-Q1-E1-G2
 <400> 3312

gtggtgttgg tagtgctcca aggagtcaag taactcgtgt ccaagttacc aatttggcac 60
 tcggtgttac caggaagga 79

<210> 3313
 <211> 375
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-065-Q1-E1-G8

<400> 3313

agggctcaag gggaaagcgt ctctgtggaa caactgttgt aacacttcac cgagcagttt 60

tcgttacgtt ctctgtcgta tagcatgctt tttggagctg taatataacc aaagaacatg 120

gcttgtgtag cagacgagcc ggcaggttg acaccgagca ccgaagcagc gcaaactcca 180

gtggacaacg actgtcttgc cccttcttcc caccctctt caccttcctt gcaagtttgt 240

actataagat tcttactatt ggacagtaac gactttcgta ttgccttccc accggaaacc 300

actatattgc agttgaaaca aagagttctg gaagaccaac cacaagcttt tttgaacttt 360

ttagaacaca acaga 375

<210> 3314

<211> 361

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-G9

<400> 3314

agcccaagcg tccgtgacga cgcaatacaa atctatcaag aacagccttt tggaaagact 60

gaaacacttg aaagcacaaa agaacaattg cttccgtctc gagatatagc gtgtagtgat 120

tcagaagatt ctagccgttc tgaacctttt accttggtag ctactatcct caacgcacat 180

gaaggtgagg ttaattgtgt gaaatggaat ccacaggatg gttacgtctt cgcttcttgt 240

ggcgtgacg gtgtaataaa tatttggcag ataagtataa actaattctg actttcggac 300

aagacgcgtt gttcactagc cgttgcgtt gttctccata ttgttattta ctgttcgtgg 360

g 361

<210> 3315

<211> 376

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-H10

<400> 3315

cgcgtcagcc caagcgctcg aaaggagacc caaattaagg tgagagaatg gacgataagg 60

aactaggcaa aaggatatgg tatctgcggt agaacatatg aaagaagcag caccgactgt 120

ttagcaaaaa cacagcactc tgcagaaaag agaaaatgta aagtatagag tgtgcggcct 180
 gccaaatagt agagaaaaaa tcgatgaaag tgaaagcgag taaaagatga ggtatagaga 240
 atggcggtcc taactgtaag gatccaaagg tagcgaagta aatagacgtt tgaaaggcgt 300
 ccagtatgaa aggagaaaacg agtgtagcac tgtctagtcg tccaactcag cgaaacagca 360
 ataactgtga aaatgc 376

<210> 3316
 <211> 182
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-065-Q1-E1-H11

<400> 3316
 taaaagcaac aacaaccgca atgcttatcc ttgtgattta ggaaaacggt ttctcacta 60
 gggcacgaag ttgcatanga atatgtcgag taacanagaa gaaataaata aactaagtgt 120
 atttgttttc gaagaagaag cgtattctgt ctctcttggt gcttctttgc aagggaacaa 180
 gt 182

<210> 3317
 <211> 387
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-H12

<400> 3317
 cgcgtcagca ataattgtcg ttagtggtgc aaagccaaaa gcagttgagc acagcaatat 60
 cgatatgtca agtggctgga ataactacag tggaacggaa ggtaatggga atgctggtgc 120
 tggtaaggga aagaacaagg ataagaagac tagtgagaaa cttgcaaaaag atagtttaaa 180
 gggtttggga atggcagcct tgtcagcggg taagctggtt tatcgcggtg gcaagtgggtg 240
 tgtggataag gtggaaggcg ccattgacga ccacaagtca taaggaagta agagtggcgg 300
 tggtggaat tcacgttatt ctcggtgaaa cgtaataacg tggatagaaa cagaacgaga 360
 cgggttttta tagttgtgt gctggat 387

<210> 3318
 <211> 370
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-065-Q1-E1-H3

<400> 3318

 ggaagtagaa agaagagagt gtaaggcggc gtcataatag aaatccgaaa ggagtagaag 60
 aaaagagaga gaagaaagaa aagaagagaa aagccgtact gaagaccgac acaggtactc 120
 gaggagaaag gagacccaaa ttaagggtgag agaatggacg ataaggaact aggcaaaagg 180
 atatggtatc tgcggtagaa catatgaaag aagcagcacc gactgtttag caaaaacaca 240
 gcactctgca gaaaagagaa aatgtaaagt atagagtgtg cggcctgcc aatagtagag 300
 aagaaatcga tganagtgaag agcaagtaaa agatgaggta tagagaatgg cgtccaaac 360
 tgtaaggatc 370

<210> 3319
 <211> 329
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-065-Q1-E1-H5

<400> 3319

 gaattagaga atggagagtt gctatggcat tgtgcatggg gttgaataca aactgtcaga 60
 ttcttacgaa attgccagct gttttatcac aggaactttc tgggccaggt caggagtctt 120
 ctgatatgaa tgctctcaga gaagctgaaa tccctgaagg aaactctatt catttaaatg 180
 accgtctgtc cgacaagaat tgcaacgtca atgaatctgt agagactgta cacaaactgc 240
 cacaacactt gagaaatgat caatacgaga aggcttggga tactgaggct catactatac 300
 aaccaaagca ttggacttgc agccttttc 329

<210> 3320
 <211> 305
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-065-Q1-E1-H8

<400> 3320

tggtgggccc tgtggtggtg atgccctgga ttgagctacg tagtggaac tccgtgtct 60
tgaaagacat aactgcaagt attgaaaagc ctgacataca atggataact acgacgaatc 120
tcagtacttg tctgaattct gcagaaggaa atgttacggt tgacttgtcg cagcagtgtg 180
gcttgaaaga tatattttca ttgaagcttc tcgagaataa ctttaagttg gcgtgtttta 240
atgatgcctt gtttttagtt ttaccaggct tacccttgtg tattactggt aatcgatat 300
tctgt 305

<210> 3321

<211> 404

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-H9

<400> 3321

agcttacaga catgatagcc gatcgcttc acattcaagg tctccacctc cccgaagaag 60
ccaccggtcg aggagcagat ctctccccg aagaagattt cgacgatctc cttcagatag 120
tccaaggaga cgagatgact attctcggag tagtagtaga agtccgataa ggaaggaaga 180
aaatagaaat aggaatcttt cccccagcgc ggagaacaac catcgtgatg agggcagtta 240
tgaagaccgc cgtaggtctc gctcaaggag cgttgagagt actgagagga ggcgaggtga 300
gaattcccaa aacgagtcac ctagagggtga agatgaatac taaagtttca aggaagtga 360
cgacctgatg ttccttgaaa cgttcccctt cttcctggg gtgg 404

<210> 3322

<211> 392

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-066-Q1-E1-A1

<400> 3322

aggcaatttc cagagttgat gtcggaggat aaccgtgtct ttgttggtgg tctcccatgg 60
tctataagtg aggacgactt gaaacaagta ttttccaagt acggagaagt cgtagatgcg 120

aggggtgggta tggacagaga aactggacgc tctcgagggtt tcgggttttgt ttcatacgct 180
 gaaagctcgt cagtggacga atgtatagct gccttagacg gtcaggacct acaaggtaga 240
 accattcgtg tcaacaaggc catgactcgt gaacaacgag atgaagagtt tgcttccgga 300
 agaggaggtg gacgaggtcg ttatggaggt gggttttcgtt ctggtgggtgg ctttgagcgt 360
 anggactacg ataaccgcag gaactatgac cg 392

<210> 3323
 <211> 245
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-066-Q1-E1-A2

<400> 3323
 agcccaggca tcaggtgctc gtaacgctgc tcgagtgatt aggaaggggtg gcatccaaaa 60
 tgggtaccctc aagggtacacg tggtttncggg aaaagtcaag gtttcgggttc aacagaacct 120
 aaggggaagat aaggtcccca cggcttggca gttcgcccat tttagtagta agtttaaatgg 180
 gtttaacacg tccagtggca attccggccc taaacactgc tagatgaagg aaatgctaac 240
 ctatt 245

<210> 3324
 <211> 373
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-066-Q1-E1-A5

<400> 3324
 agcccacgcg tccgattcgc ttgtggcgtg tgaagttttg gttaccttga aagaatgcag 60
 atatttgtaa agacacttac tggcaagact attactcttg aattggagcc ttcagatact 120
 attgagaatg tcaagtccaa gatacaagac aaggaaggaa ttcctccaga ccagcaacgt 180
 ttgatatttg ctggaaagca acttgaggat ggtcgtactc tttcagacta taatattcaa 240
 aaggagtcta ctcttcactt ggtattgcgt ttgaggggtg gaatgcagat atttgtaaag 300
 acacttactg gcaagactat tactcttgaa gtggagcctt cagatactat tgagaatgtc 360
 aagtccaaga tac 373

<210> 3325
 <211> 385
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-066-Q1-E1-A6

 <400> 3325

agcccacgcg tccgccacg cgtccgtgca aagccaaact atttggaaacg tttatttagtg 60
 ctcgttactc aagttggatt tttcgccctt tatactacta tttatctatt gtcacctaata 120
 actgcacatc gtatcgttgg ttacttagaa gaagaggcag ttgtatcata taccgaatat 180
 ttaaaaggaa tcgatagtgg tttgcatgca aatattccag caccgcaaata tgcgattgat 240
 tattggcaac tagatagcaa tgctcgcttg agagacgctg tattggcagt gagagcagat 300
 gagggcaaatc atcgagacgt gaatcacctc aaagccaata ttttatatac aaagcgtgga 360
 aaggaaactg cacctttgtc cgtat 385

<210> 3326
 <211> 405
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-066-Q1-E1-A7

 <400> 3326

agggggaggg aggaggatgc aaggttggaa gaaaccagtc ataaccgatg cttttggaaa 60
 cagagtaact tatgtgttga aaagatattt caacgcacct actactggag aagagttgcc 120
 acattcgttg ggtggcatg tgaccgatgc agatacgttg ttacggcaca aagggttggg 180
 agaagaaaca gcgtattttc tgaaagaaga cgctcgcaag tttgaaaagt tggcaaaaca 240
 gttgaaaagt gcgttgaatt cagggaaact aatgacaaaa gaacaactca aagtggccat 300
 ggaacagaga ggaatacaag tatctgaaga gggtttagag gacttgcttc gtctaaaaga 360
 gcaattcga ttctcggatg caagtagcag tggtagctaa gaaca 405

<210> 3327
 <211> 342
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-A9

<400> 3327

cgggtcgacc caaacgtacg gaaaactgca acaacgtcat tcctggcgac aacaaacaga 60
caaggtcaca agcaatcgga acccgcaatc ttcgaagtag aacaattccc aagcccaatt 120
aaagtagttg ttttatattt cgctgatatg cctttgtttc tcaaacata ttgaaagctt 180
ttgaatgtgt taaagagact gatttttctt taaaaaaaa aaaaaaagac aaacaaaaat 240
aaaaaaaaat agcaaaaaaa aaaaaaaaaa acgaaaaaag aaaggaaacg aaaaagaaca 300
gaaagaactc aacactagac atgaaataaa aaaaaagggg gg 342

<210> 3328

<211> 441

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-066-Q1-E1-B1

<400> 3328

cacgcgtcag cttgacctca ggaagtcttc tagtgcaaac cttgtatcct cccacgaag 60
aagcaccacc acaatgtttc tcctcctcat ctagtatgga aaatgagagt agctacgacc 120
agttctccag aatcggggtt gggtgaaaag tcggaagagt cggtgggtat tggaattatt 180
ggagcaggaa gaataggcca agtacatgca gaaaacctgg ctttccgtat caagaaaggc 240
agattgggtg gagttgcttc aggaaccaa caattggcag aaagatgtag tttggctact 300
ggatgtaagc cttattatga ctatcattta ttattagagg atcctagtgt ggatgcagtt 360
tgtatttgtt ctggcttcaa tcaacatacc anacagatta tggaagctgc aagagctggc 420
aaacatatct tttgtgaaaa g 441

<210> 3329

<211> 408

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-B3

<400> 3329

aggaaatgta caacgattat atagacgcag gtagcaccca cgacgatgaa aagaatacta 60
 cttgggagaac aacaacttcc caagtatcac ccgaacaaca acaagaagct gcacagtttc 120
 gacaacaaca attacaacaa caacgaagtt tacaagcggt gaacgctacg cttgcccagt 180
 tttgggacga acaaatgcga gaggtcagcg tcatcaccga ctttaaaaac catatgctac 240
 ctttggcaag aatcagaaag attatgaaat ccgatgaaga cgtgcgcatg atatccgcgg 300
 aagctcacgc cttgttttct aaagcttggt aaatgttcat tttggagttg accattcgag 360
 cttgggcaca aacagaagag tcaaagcgta gaactcttca acgttggtg 408

<210> 3330
 <211> 428
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-066-Q1-E1-B4
 <400> 3330

.gaccacgcgt cagcggacgc gtgggcgac gcgtggggta gtggttttaa taaatattct 60
 atttccttta aaagaaaaaa aaaaaaatc aaaaataaca accaaacaac aaaaaaaaac 120
 ggcaaaggtt tcaacaacag caattacaag aagaacgcac atttacaatg cgtcgaacgc 180
 tacgcttgca cacttttgcg acgaacacct gcgagatgtc ctggtcacca cccacttgaa 240
 gacccatatg ctacctttgg caggaaacac cctgactatg acatcctttg accacttgca 300
 catgatatcc gctggagcac ccgccttggt ttctaaagcg tcgtcactgt tcactcttgg 360
 aattgactat tcgacccttg ggcacaccac agaactca cagctgtgaa ctcttcaacc 420
 tcgtgata 428

<210> 3331
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-066-Q1-E1-B7
 <400> 3331

agttttaata tttgactcca ccagtcaacg attcgggtgc gctgctgaac acgtttatga 60
 cgtaaacgag aataccaagt tgcgttttgg tgggaaagtt cgtcacggag aatcggaccc 120

ggcaggatat gtcattgccg aatatgactt tacggtttcc aaagaagatt ttccgataaa 180
 cgttcgtgca cgtgcgatat gtaaaagtaa ccagtgcac gccgatattc gtgccaaaaa 240
 gaagtttgaa gtggacgaag acacttcttt attcttcttg gccaaagctt gtactcagga 300
 actaacaaaa ggaagttata ttattggtaa agctggagtg acacgtgact ttcgtttggg 360
 tgaagacact tttcggttgg gtgcggtgtg tgaccaagat ggaaactgt 409

<210> 3332
 <211> 396
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-B8

<400> 3332

aggtagaaag aagagagtgt aaggcggcgt cataatagaa atccgaaagg agtagaagaa 60
 aagagagaga agaaagaaaa gaagagaaaa gccgtactga agaccgacac aggtactcga 120
 ggagaaagga gacccaaatt aaggtagagag aatggacgat aaggaactag gcaaaaggat 180
 atggtatctg cggtagaaca tatgaaagaa gcagcaccga ctgttttagca aaaacacagc 240
 actctgcaga aaagagaaaa tgtaaagtat agagtgtgcg gcctgccaaa tagtagagaa 300
 gaaatcgatg aaagtgaag cgagtaaaag atgaggtata gagaatggcg gtcctaacgg 360
 taaggatcca aaggtagcga agtaaataga cgtttg 396

<210> 3333
 <211> 420
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C1

<400> 3333

agggcgaata ttcgatgcgt agaaaaaatg aaaatgagac gacttgtcaa aaactgtgt 60
 tatatttggga tgaataaacg tgcacaaaaa tagtattcaa gaatatgttg agtatacaag 120
 ttttgcaagt atggacgaat gagcgtatgg aactaaciaa gttgaagatt gctaccaagt 180
 ttgaaatggc actggaagaa actcctttat atatgaatat attatcttca cgatcaacga 240
 gaaagcgaaa tcgagagtgc attgaattga gtgagcacia gcagaagctg gtgccaaacc 300

aagtagtatc tactgcaatt ccagatatat actttacaat gacgctttac agcacggcaa 360
 ggtggaagag aacaacggtg cttggcagta ttgtgcgtcc tatcgatgac ttgtcaaaga 420

<210> 3334
 <211> 235
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C3

<400> 3334

cgcgtcagcc caagcgtccg ggggtattaca agagatacac ttcataagcg tcgccttacg 60
 ggaggtaaaa aggctatatg gaggaagaaa cgaaagtata atttgggaag acaacctgca 120
 aacacgaagc tgggtccaaa ggcagtacga cctgtgcgag taagaggagg caattacaag 180
 ttctgagcac ttccaatgga ttctggtaac ttttcatggg gctccgaggc gccta 235

<210> 3335
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C5

<400> 3335

agaatggttg gtttcgtcgc ttcggctcctt cttttgtgat tctcgtgtat tgcacgagaa 60
 aaagtcctta agatggaaag agctttgaaa agcagtgcac gtcttgtgcc catacgtcca 120
 aagcctgttg taccttcaaa aggggtctgaa actttttcgt tgcagttagt tgggtgccacg 180
 tgggatgggtg gttgcacgta ctatataagg ggaggagggt catatattac taatgggaga 240
 attacagtac cttcaagggc gtctaataccc atgaccaagg acgagttctt cttactgggt 300
 acttactcga gagacaagct ttgcccgtg ttgatagaa ctctacaaag ttccgaaaca 360
 cagtagtggt ggttactttg ggggtgtattt tcacagttgt ttttaataac 409

<210> 3336
 <211> 368
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C8

<400> 3336

aggggaagtgt tcgtaagcat caagaacttt caaggaaacc aaaactggcc aaccctggta 60
ccaacggcaa ttctccaac gcatttttgg gaacaattag tcctttgggt gaatttaatg 120
gcggttttga taatcaagga ggaattaaaa tactgaacca aaggtgtcaa aagctggatt 180
agttggagca agtgcaacaa agaaagatta atgattggaa agagaaacta aaagttcttc 240
aagcccggtg cgatgaaaca actggcaaag acaaaagggt ttgagagcga agaagagtat 300
caaagaaagt tggagcagct cgaaaaggaa aaacaaagca tcatcagtga aaatatgaaa 360
gctgaaga 368

<210> 3337

<211> 342

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C9

<400> 3337

agcttttggc ggtggttaag agacatgtct caaaatttgt tacgttgcag caactaaatg 60
catttacttg tcgtttaaac gacagctttc aacagattga ggaacgactc aagatgttgg 120
aagtaaaggc aacaagacta gaggaaacga cgaataaatg ggacaagtgg ctacgaagta 180
ttggaaaatg gagagtgaaa ccacaagaca acaaaaaagt ggttgcgaaa aaatagacct 240
ttccaacgat aatggtgtca caagttctta cacacaactt acaagctcaa aaaccaacat 300
gactttatga agcgcttata aaccgggaat ttctgtcttt tc 342

<210> 3338

<211> 423

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-D1

<400> 3338

aggtaacaca caatatgatg atgatgatgt gcgtggtaga agagaatcga gttgtaatta 60
cttggagcct acaaatgaat cctcccatgc ttccctattg gaagaagaaa gtggagatat 120
tgatctggaa tcttcattga atcgttttca tatggatatg gagttgagtc aacgtgctcc 180

acctccacca cctacggcac cttcttttagg attagaactt ggaacgtccg cacctgcagg 240
 ttctggtctt cctgcaagtc ctttttctgt tgcgtggact cgaggctcga ggtcatcgag 300
 tgttgcacca ggagaaatga ggacttccaa gtggctacgt gctagaagag gattgacaag 360
 cagtgaaaca agtgatcgaa gtcagatgcg ttcacgagag acttgatgaa gataaagata 420
 tct 423

<210> 3339
 <211> 311
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-066-Q1-E1-D10
 <400> 3339

gggtcgaccc aagcctcaag ccaagcctcc ggaacgacac tacaatggtg gtggaaaagt 60
 tgtgtttaac gcaaccgacc actccggatt tgcagtgggt caagctcggg ttccggatta 120
 caacgatgaa atgcaacatc catcgccatc ccaggatggg tcatcgttgc aaaacgaaac 180
 agagaaaata acgattgttt ggaagcttgg taaaatacaa gaaggattgc atttggtgtg 240
 ggaacgagta tgggtaaacc ataccaagta tggtaaacag tttcaggtgc aggtgggaca 300
 gcagaacctt t 311

<210> 3340
 <211> 404
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-066-Q1-E1-D12
 <400> 3340

gtttgttgaa aagcagcatg atgaagagcg ctatgaagtt ctttgtattht agcattattht 60
 tggcaaatgt tggtcttact attcaagcag caacggtttt ggagactttg gagtcactga 120
 aatatacaga gtatcttgac atggtaaagg ctgcaggcct gcaactcgaag ttcaacgact 180
 ctgctgttac atggactgtt tttgcagcaa acaatactgg agtcaatgcc accttggcac 240
 cagagcactt ggttttctaa tatcacatct aatgcgacgg agagcaaaga cattgtggaa 300
 tatactttgt acaaccatac tcttttgtca gatgatatta agacaggaac aactatcctt 360

accgccgtaa acggaatgaa tttgactgtg gttaagaata cgac

404

<210> 3341
<211> 318
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-D2

<400> 3341

aggaaatttc agggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaataaaaa gaagataaat tcaaaaaaga 180
atgattttat aaatacctag acagaaaact tcattgatag taaacaacta ttaacacatt 240
tttaaaaaaa cggcactttc gttataagta agtactacct gatattgaat gcacaatgtc 300
gaataacgaa cgaggatt 318

<210> 3342
<211> 375
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-D3

<400> 3342

accacgcgtc agcaaaggct ctgtgacttg aaacaaggct acactcagtt tggaggtttg 60
aggccctttg gagtatcttt ccttttcgct ggttgggac gacactatgg tttccaactt 120
taccagtcgg atccaagcgg taactatggt ggttgggaagg caacagcaat tggcgcaaac 180
agtacagctg cacagtccat tttgaaaacg gactatcaag atgacatttc tttgaatgac 240
gctttgaagt taactgtaaa agtttttagga aagacgatgg acagcgctca gttaactagc 300
gagaaacctg aatttgcgac cctctcgttt gtcacacctg agcttctcca gttccaccac 360
ctttcaactg aagag 375

<210> 3343
<211> 405
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-066-Q1-E1-D4

<400> 3343

agccccacgcg tccgcccacg cgtccggcga acgagaaagg tcggtatcgt tggaaagtat 60
ggaacacggt atggcgcttc tataagaaaa cagataaaga agatagaaat tgcccagcac 120
gccaaatatt tgtgtgcttt ttgcggaaag gattccataa agagaaaggc gggttggtatt 180
tggtactgta aatcttgcaa cagatcaata gcgggaggtg cgtggtctct gagcacccaa 240
gcagcagcaa ccgtaagaag taccattcgt cgtttgagag aaatgacaga atcgtaacgg 300
agcaaattatt accaacttgg ctgntgttc gcaacttgca agtgaaactt gctgtttcct 360
ttatcaataa gaataaagag acgaggggtct ctcactttgc gacaa 405

<210> 3344
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-E10

<400> 3344

aggttgagct ttgttttggc actgtttttt tggggtttca ctggtgtgtt ttgtattttt 60
aaaactctaa gaagactatt tatttcttgt tatgttttag agtcttttct agactctgtt 120
ttttggagtt gttctactcc agtcttggtg gtaggtgaat ggttctagtg acaaagaggg 180
ttgtcacttt cccgccattc tccacagctt caactaccaa cttgtatacg ccacaaactg 240
cacaactata ttactacaga gtcgtggtgt aaaacgacaa gttgagtggt tgaaaaggat 300
tggtgaaaag caaaggacta gtgagagaga gcaacttgaaa acttgatat ttgtaccccc 360
tagaaactat ttccgcttga agagattgca agtttggtgt attcgacaa 409

<210> 3345
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-E3

<400> 3345

aggggaagctg gcgagcattg gggtttcttcc cgagagagaa aacgagtgca aaagttgtct 60

ttc gatgtct agt gttgatg cgc atccaac aat agtttat cct cattatg tcag agcttt 120
 agat gaagaa aaag ctcaac tacc atctag tttt cctcga gaat attcgg aag agtttca 180
 acac atttta ccca agttgt tgc agcgcgg tttt catata cta accaaac taa acaacca 240
 aaag ggtaat ttat caaata tttc gaaaaa cttt gtgttg agcc atccac atatt cacgt 300
 cg ttattctt cga agagccc tgg atggtgc tgtt atttac tcc gcttacg tgggttccca 360
 ggtacaaggt ccct cgggtt ttat gcatgg agg agctaca gcagca 406

<210> 3346
 <211> 436
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-066-Q1-E1-E6
 <400> 3346

agcccacgcg tcc gctccca tgaa agatac agaga acaag gac agtcaag atg tagagtc 60
 tggaaagaag agc gaaaaga agaaaaagaa aaaggacaaa catcgtgata gtcacggaaa 120
 acatagcgaa tcgaaggaga agcacaagaa ggattcgaag aaaagaaaac acaaacattc 180
 gtctgaaaag aagaaaagga aacgaagctc agaagttcca tcgacagatt ctgatttattc 240
 aagtggagaa gaaaaaata ccaatgagaa tctgcaacaa tcccagtttg cgacagagaa 300
 tactcatagc aacaataatc ttatatcttc cccgcagaat aatttcacgt ctccacanaa 360
 aaangatcga cccgagacaa aatcttttct ctccgaaaca acgaccagac caaactcagt 420
 ggaatgcaga agcaac 436

<210> 3347
 <211> 394
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-066-Q1-E1-E8
 <400> 3347

agcccacgcg tcc gccagag ttcaagaaat acgcatttca ggttcaagcc aatgcccag 60
 ccttagcggc ggaactggaa aagcgaggat ataaacttgc tactgggtgga actgataatc 120

atcttgtctt gtgggattta cgcccagtaa atcttacagg ctccaaaatg gagaaaatat 180
 gtgatgctgc gcatattact ttgaataaga atgccgtaca tggagataca tcggctcttg 240
 taccgggtgg agttcgaatt ggaactcctg cccttacttc gagaggtttc aaagaaagtg 300
 attttgtcca agttgcagac tttttagata gagcagtga aacttgctctt gcaattcaag 360
 aaaagtctgg aaagaacatt aaggatttca atat 394

<210> 3348
 <211> 327
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-066-Q1-E1-F2
 <400> 3348

agcttacaat atatatttgg tgaaagacaa gaaagaaact ctctgtggg atggcaagtc 60
 aaagggctct cctcgcaagc taaaatttcc tcaggcagaa accatcctgg agtcactgaa 120
 tgcttagacc agttatctag tcattcggag cctttcgcta tatgacgact ttaccgaaa 180
 agaatccgtg attctggtac aagtctgaca acgtttattg ttctttttgc agtcgaaaga 240
 acagtaatta ctagtaaagg ctcagaagac tggagattgt tatttaaaaa gaacaatgtg 300
 agtcctcagg tgtatctgcc cgcggtat 327

<210> 3349
 <211> 325
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-066-Q1-E1-F3
 <400> 3349

agcccactct tccgcccacg cgtaccgca agatgttctt tatgaacaca aagccgtaca 60
 agaagctgcc gttatcggtg tgctgaccg atctcgatga gagactgtcc gaggttttgt 120
 tgctcacaag gtcgaaatcca gaatttcgga atcagatctc aaatgattct gcaagtggac 180
 actctgcgtc tacacctatc cccagaacat cacaatttca tcgcagaaac cattgctctc 240
 ctacgcggtt gattccttcg agttttccag cagaacatgt gattgaaatc ttatccgcaa 300
 tctaactaca atgttgtcac tggca 325

<210> 3350
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-066-Q1-E1-F5

 <400> 3350

agagcagcaa agtgcaacaa ccagaaaagc agtcaactcc gccctcgtca cctcccaagc 60
 cacctcagca agttgttgag acaagtaagc agagttttgt aggttctgaa gtgggagtaa 120
 agagagtggc aatgacacga atgaggcgctc gtattgcgga acgactaaaa gaagcgcaga 180
 atactgccgc tatgcttacg acatttaatg aagtagatat gtctgctttg atggagttga 240
 gaaatagtta taaggaagcc tttgaaaaga agcatggcat tcgttttaggc tttatgtccg 300
 catttaccaa agcagcaact ttggctttgt tagaacagcc ggaacttaat gcttatattg 360
 acggcagcga tattgtatat catgactatg tcgatatctc cg 402

<210> 3351
 <211> 410
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-066-Q1-E1-F7

 <400> 3351

agcccacgcg tccggcagcg tttgcaattt ttgttgtgag tgagtagtgt catggcagag 60
 caacaaagaa gtgagagtac tgaagttaga agtgctgcag ttcccacccc ttgtataaag 120
 ggttgtgggt tttatggtac ctcttccact cttgacatgt gctccaagtg ttatagagaa 180
 catttgcgcc aagaggaaca aagacttcaa gtggagtctg tatgtcagca gcagcaacaa 240
 caacaacaac aacaacaaaa gcaggataag gaacaagaaa tgactcaagg gtccgagttg 300
 cagcacttgc cctctaaaaa ggagcaaggg gaagagacgt cgggtggaggt ggctcaacct 360
 agccaggggt ttgttgcgga gagttgccga ngggaaaact cggaatttgt 410

<210> 3352
 <211> 206
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-F8

<400> 3352

agcccaacgcg tccgcccacg cgtccgcccga cgcgtccggt attggtgagc agtacaagct 60
atccatgccc gtttctgtat gggcgctttt tattegcact tagtatttag gcctccattc 120
ccaccttcat atacacagga agacttccat aaaactggga tagaaccac acaaaacagt 180
gtgtccctgt gtacacacat tgaaga 206

<210> 3353

<211> 259

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n. locations

<223> Clone ID: LIB190-066-Q1-E1-G2

<400> 3353

gtccgacagg cgctacnggg aatacaacta gtttccttag ttcggtttcc acggaatac 60
caaccagtgt accaacaaca tcatcttoga ttactatcct tactgtcttg caagacaacc 120
actttgacga tacagtacaa gctataaatg cggcaggact tgactctttg tttacaatc 180
cttccgctac tcttactttc tttgcagcan atgactctgt atgggtctact tctacagctt 240
ctcaagctct gagtgctct 259

<210> 3354

<211> 428

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-G4

<400> 3354

agcccaagcg tccgggttgag gaacgatgaa gtggcaaagc ggtcctagga atacaagttt 60
taataggata caaacgctac tgcttttctt gttgattatt tgcaacgttt ttccatatag 120
ttactctata caattttata tgaacgctgg aacgaagcgt tgtctttcgg aagaaattac 180
ctcaaacaca aagggtgtttg gtgaatgtct tgtagtcggt gcggaaggct ccatgtccgt 240
agatctgttg attcgaggac ctcaagggga gactatagtg caacagaaga acatagataa 300

gcagtcattt agcttcacaa caccacagca cggtcttgct ggagattcga gtttggttc 360
 caacgatatt cactggcctc ctgcaagtta tcacttttgt ttcgaagcta gtctctctcg 420
 tcctctctc 428

<210> 3355
 <211> 341
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-066-Q1-E1-G6
 <400> 3355

aggaccgaca caggtactcg aggagaaagg agacccaaat taagggtgaga gaatggacga 60
 taaggaacta ggcaaaagga tatggtatct gcggtagaac atatgaaaga agcagcaccg 120
 actgttttagc anaaacacag cactctgcag aaaaagagaa aatgttaaata tataaaattt 180
 tccggctgcc aaattataaa aaagaaatcc attaaagtta aaaccaatta aagattgagg 240
 tatagagaat ggcggctcta acggttaagga tccaaaggta ccgaattaaa tagacgtttg 300
 aaaggcgtcc attatgaaag gagaaacgat tgtaccactg t 341

<210> 3356
 <211> 196
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-066-Q1-E1-G7
 <400> 3356

gtctccacg atagcagtga cccatattta cgtgagatca ttttccatga ggatctcagc 60
 aactggatct ggtatctgct ctctgacatc tggccgggag catcatccac tgtttaccat 120
 ttgcacaaca ctctgcacgc tatagaaact gtaagatatc aatcgttcgg cctgccacct 180
 tccactaaac aaatct 196

<210> 3357
 <211> 380
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-066-Q1-E1-G8

<400> 3357

agggagaaca ttgcaattgg ttactttccc tgtaatgttt ctcatgttat tgatggttct 60
gttttccttt tacggagata agaaagtga tttagccttc tttattatcg gagttatatt 120
ctttattatt gcctatagtc ctggtgctgg tctgttctc tggacatttt gtgctgaagt 180
atttccaact tatgtgctg cagcaggaac gactattact acttggtttg tgaacgcttt 240
caactttgcg ctttcattct cgtggccttc tatgaaggct gcatggggac ctcaaggagg 300
tttcggattc tatgctggt tcaactttct tggcatcggt atgcagttct tattcttacc 360
tgaaaccaag ggctttacat 380

<210> 3358

<211> 413

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-H1

<400> 3358

agcccaagcg tccgcccacg cgtccgcca cgcgtccgca ccagcagtga atcagattga 60
aatgcatccg tattatgcaa gaacagatct gctcgaattt tgtaagagtc gtggagttca 120
tgtgactgct tattctctc ttgggagcgg taaacatggt ccgcttcaag atgagacagt 180
tgcaaagatt gccaagaaac atggaaggac acctgctcag gtattgatcc gatggtgtct 240
acaacgtggg tgttccgtta ttccaaagag cgtaaagaaa gaacgtatca aggaaaactt 300
tgatgtctta ttgcaattga gtccacagga tatgaaggaa ttggaagcct tagataagaa 360
cataatcctc aatcatcaaa aggaatattg gggtttcaat attcacgctt gag 413

<210> 3359

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-H12

<400> 3359

ggctcgaccc aaacgtcagc ccacgcgtcc gccacgcgt ccgcggacgc gtgggtgcaa 60
atgagcgagc aaaccgacct tccttctgaa ggcttgacta caaagaaaga cctttccatc 120

aagggtggaga atacaactcc gacaattgaa ggaaaaagta tacctgaaag tttgtgggggt 180
 cagctggaag aacttgagaa ggctgagagt ctttcacaaa ctcatgttga tagcttccaa 240
 cggaaaagaa aaaaagagga gttcactgtg gagacttttag aagagggtag tgtggaagag 300
 tcacctacga agagcccaca caagtctacg ggagttactc caaaactgga gtcgctgtcc 360
 ttatcgaaaa atgaaaatag gttgaaaaga ctagaggagt gtgacctcgc atcactca 418

<210> 3360
 <211> 387
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-H2

<400> 3360

agcccaagcg tccgtgatac ttgaatatgc aagaagaaaa ggaatagaca gaattgtaga 60
 gatgaacggc aaatggtgga tatatactag gacacctccc aatcgaaagg cactgcggtg 120
 ttggtatgac atggactgcg tgggtgtgaa cccagtcagg gacttacaaa cggccaaagc 180
 ttatgcgaga agagtaaaat aagcagtgga gaagagaact acggtcgaat tgcccaaaca 240
 agatatttgt gtacgacgta gcgacgggaa gaaacacgga gtggctcgcta ggagaggaga 300
 agatattgag tttgctcaag atacagcggt taaaaggca agtaccgtcg gagtaaaagt 360
 ttggctgaga aagaaaccgt actggag 387

<210> 3361
 <211> 243
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-H6

<400> 3361

agcccatgcg tccgagcaat tacaatttgg gacatctgta ggcgctgccg ttgagtaatt 60
 ggagtatgag tgagaacata ccaacggagg acgtcccata ccaccggtt ctaggagaa 120
 ctgtttactg gacgccttgg ccacgcttgg ctaaactcag tcctaacgaa agggttcgag 180
 ttaatggcag cgttctgatt ataacggcgt aaagtgggtg gatcatctac actgaactgc 240
 aat 243

<210> 3362
 <211> 327
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-066-Q1-E1-H7

 <400> 3362

 agggaaaacg tcatgcagtt gcgtattcct tctgctgcag tcaaagcaca gtacttcgac 60
 ccaacgcaag ttgttggtga ccctgtaaga gatacatcac gtccctcttgg cactggaggt 120
 tctgttgtag gaatactatg ttgcgatgga gtaattattg gtgcagatac tttaacttct 180
 tatggatcga tggctcgatt tcaaaacttg tcgagacttg tagacgttac tgacaattgt 240
 ttgttgggtg gtggaggtga aatttccgac tttcaagaaa ttcaacgtct tttagaaaac 300
 ctcacacat ttgacatttg ttttaaat 327

<210> 3363
 <211> 351
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-067-Q1-E1-A10

 <400> 3363

agccccacgcg tccgcccacg cgtccggctc aatggcggag aaaggactgg ttgttgtagat 60
 aggtgcaacg ggtccgcttg gaaaagaatg cggtctggca ctggaaagtg aaggatatcg 120
 tgtecgtaga gcaagcagaa ggggtgaaac ggctcgtgag atgctactcc acaaggtaaa 180
 gaacccttcg agagtggact ttgtccatgt cgatgttatg gaaaaatctg tactttctag 240
 cgtattaaag gatgctgaag tgggttttctt ctgtgcttca gcttctgcan ggtggagagt 300
 ccctggtact tctaagaaca ccccgaaaca agtggactac ttgggcgcca t 351

<210> 3364
 <211> 393
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-067-Q1-E1-A11

<400> 3364

acaagcctca tagtctgagt catcagtaac ccagttggat agagcctcgg agagacgttt 60
 cgcatacttc tggatgatgat tatctatttc atgaggacgg tggaggaact actcagggca 120
 gtggtcgtga agaagaaagc atccaaatag gagtttggtg tgggaagagt tgttgtaaaa 180
 ataacagttg gcagatgggtg aaccaagtcc ttgcacagtt taaaggggtg tcattcgaaa 240
 caaagcccag taaatgcacg aagctttgta gtaagaatgg cgtaacgggtg aaagttcagg 300
 ataagacttt ggggaatatg aatgctagta ctctttacca agtggtgaat acttggaac 360
 actgcgaaag ccaggaacca gaattgcgtc ctg 393

<210> 3365

<211> 384

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-A12

<400> 3365

aggtcattgc caccaaacca caacgattct ttgtgtgttg gatcgatgga agctctccta 60
 tttctgttct tcaattgtcc tttgttgaca aataagagtt tattcaataa aacaaaaaag 120
 tgctatcctc gtagaagaac aagaatgtgt tcgtccattc ctgtggatag acgacttgta 180
 tattttccgt tttcgttggt agagaaacaa aaggatgcaa gttggacatt gaattctaag 240
 gctgtatcag agtttctcca acaatacaaa cattctccag ttttattcag aaattgtttt 300
 cctgatctat tttttgcaat tactccagaa gagctggcag gacttgcgtg tgaagatggc 360
 ttcgtgtctc gtatcgttca actc 384

<210> 3366

<211> 345

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-A4

<400> 3366

agcgcccaca tttggattct ccatgtcttg gcaagtctat gtagaccaac atttgcttgg 60
 ttccggaaag gtaaaagacg cagcaatagc tagtttaciaa gggaatattt gggcgcgcttc 120

tgcggggttt caagcttcca cggaagagtt gaaaaagttg attgcaacct ttcatacaac 180
 caaagaagca gctcaaaacg gtattttttt ggggaataag aaatactttt ttttgcgttc 240
 gacagaagat actatttatg ggaaactggg tgacgatggc tttgtagcta tgcaaaccaa 300
 tatgtgtctc atcatagcga tatttaccag acccgatatct gccgc 345

<210> 3367
 <211> 377
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-067-Q1-E1-A6
 <400> 3367

agcgttattg tagtctacgc aaaacaaatc aagttattgt tacacatcaa agtattcacc 60
 actatagctg gaataggaaa tggattgcgt cgtcaagtga gcaaagccat caaagacctc 120
 atgtacagtg gtatccaggg catattgcaa aggcagagag actcttaaaa gaaaaactca 180
 aacttgtcga cgttgttttg gaagttagag atgcaagaat accaaagtct actgagcatc 240
 cagaactcat ttcttggatt ggtgagaaga aacgattgat agtgctcaat cgtaatgata 300
 tgggtcctcg cgaagcaata accttttggg ttagaacaat gaaacagcaa ggttttcaag 360
 tttttgatac aaacgcg 377

<210> 3368
 <211> 324
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-067-Q1-E1-A7
 <400> 3368

cgaccaagc gtcaggcata ccaatgatcg ttgaggaatt gtgagcagca gccatgtcga 60
 aaatgctatt acgtcctggt tggaaacacct ttgcacagtt gacagagagg gggacagaac 120
 aactaggttt gctgtcagag aggtctattc aggcaactag tgcgcggaac tttttctgaa 180
 gaccctaata tgaaggacaa tcccctcctt cgtcatcgtc caaaaatacc ccacaaagtt 240
 cttcttgcca gaaagttcct aattggaacg aaggggggga ttccacggca accacattgt 300
 ttgcaacgga aatgattcga ggac 324

<210> 3369
 <211> 394
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-A9

<400> 3369

acggcagagt tgatacagaa aatggaaact agttggaaga aacacgttga aatttttgct 60
 gaggcgtcga ttgctttgtg gcatacacia atgcttatga ttgatgagtt ttccaagtcc 120
 tccgaggaga tacggcctta tgttcaagat tacttgaata acttgaacac aagtagtgga 180
 aattatgtcg gggatggaac atcggcgaca cttggagaga gtatggaaca gtcaaaaagt 240
 gctgaaagtg aagacaaaag gactacacga ccatttcagc gttcgaggca aacgacgggt 300
 aactcggaca gttcttctcc aactttagat gaaaacggaa agcaagcttc gtcttcggat 360
 atttatcagt ctatgagaag tgctcaagca tgaa 394

<210> 3370
 <211> 371
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B10

<400> 3370

ggtgcatgtc ggaggaagag gaagcagatt ttcgagggaa ttgtgactcg gttgctattc 60
 caaagaccac cgtgaacaaa gtggcgacag aagtacttgc caatgccggt aagttgccga 120
 aagaaagtgg acgaccaaga tggaacgatg tatatgatca ttgctatcgt atataggtgc 180
 gcatctttcg tccgatgcca aagaactatt ggttgggttt tgttctgaat tcgtgcaact 240
 tgttagttcc cacgccaacg aattgtgtga aaaggaaaac aaaaaggtta tttctcccga 300
 acacatttta cagtcgttgg aagaactggg gtttggagat tattgccaag aagtgaacaa 360
 agtgtatgaa g 371

<210> 3371
 <211> 398
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B11

<400> 3371

ggaacgtaaa tggtttgga tgcgttgataa gaaaaggcta tttacaacc tttatacaac 60
aaacaaatcc agatattatc tgtttccaag agacaaagat ttcccgaagg aaactagcgc 120
agtggagtgt ggtcaccaaaa gactggaact gctttctttc actttgcaag tcaaacgaag 180
gttattctgg tgttggtact ttttgtaaat tgttttgccc gttgttcaag gcagaagaag 240
gtataactgg tttccttcct gcagagtgtc tctcgtggaa ctcgaaacga ccgtgggtttt 300
gtcacttgag agacaatccc acatggagag aaacttccta ttctgtgggg taccattttg 360
aagttggggg agactcggat aagttattgg gactagat 398

<210> 3372

<211> 376

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B2

<400> 3372

cacgcgtcag cccaagcgtc cgcccacgcg tccgcccacg cgcccgccca cgcgtccgct 60
caagatgtct tttttgaaac gtatacagtc gactctgctt tccaacagaa actcagtgc 120
aaacgcaagt aaggccaatt acgacataaa gcacgttcgg gtttaccgct gggaccctga 180
aaagggagaa gaacctaaat tggttacctc ctcgattcct ctcaaagaat gcggtcctat 240
ggtgttggtat gccttattca aaataaagaa tgaagtggac tctacttttg tatttagaag 300
gtcgtgccga gaggggaattt gtggaagttg tgcgatgaat atagatggaa agaaccgtct 360
ggcttggtta actccg 376

<210> 3373

<211> 333

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B3

<400> 3373

gagccacgcg tcaaggaaat cgagtccttg ttgaaagaac gagatgctat tttgaatgga 60

acaagtgaag aatacttgag tcaattggcg ctttagaga atgaaaggaa acgtagactc 120
gatagagcta tggactttta tcaacttcaa ctacaatatg cagaacagct gtatgagttg 180
gccaagaaag aagcatatga tagctttcaa gcacaaaagg cagaacaaag agaatatatg 240
tggcgtacga agttggaaag agaaattacc ttgagaatcg taagattatc cattccatta 300
agggacccaa acggacaagt gattgtacga acc 333

<210> 3374
<211> 356
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B7

<400> 3374

aggttgacca aacagggact cgacagatat ggcttccggt gttgcagtag acgatacatg 60
cggaaggag ttactgttc ttgtgagaag cacgccaaga aagtaccgtg ctattatttt 120
caaactcact gatgacctgt cttctgtatg tgtggaaaag acgcttcccg cagccaacat 180
aaccaagtgc agtgcacaag aagactggaa aaagtttgtg actgaattgc cccaaaacga 240
ttgtcgtttt gcagtatatg actttgagta tcaaacttct gaaggtgttt ccaaaaatag 300
aataatattc attctttggt cacctgaaag tgccaagata aagtcaaaga tgttgt 356

<210> 3375
<211> 316
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B9

<400> 3375

acgcccacgc gtccgcccac gcgtccgaag tttggttgtt ttcttggttag cagttgtaca 60
ttcaacatca tcaaatgcca aaggaggaa agaaagattc ttcaaagaaa gaagccacaa 120
gtaaacctgc agcagcagat gctacaaaga cgacagaaaa gtctgggtccg gaagccaagt 180
tgaagggaac tgggtgcaaag aaacaataaa aagttgacta tgcattgtgca gtctgttat 240
gttttgtgag ttctgtttga tagtttccag ctattctttt ggtagtgaat aaagagaaaa 300
ttttttatat ttacac 316

<210> 3376
 <211> 383
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-067-Q1-E1-C10
 <400> 3376

cttttgaatc agttggatgg gttttcttcc gatgataata ttaaagttat agctgccacg 60
 aatcgagtgg atatattaga tcccgcttg atgcgctcgg gtagaattga taggaagatt 120
 gagtttccctt taccggatga aagttctcga gctcgtatac ttcaaattca ttcaagaaag 180
 atgaatgttc atcctgatgt caattttgaa gagttggctc gtagtacgga tgatttcaat 240
 ggtgcccagt tgaaggcagt ttgtgtggaa gctggaatgg ttgctctaag agctgataga 300
 acggaaatag ttcatgaaga cttttagaaa ggcattgcac aagtgaagc caaaaagaag 360
 ggaaatttga attatttcgc ttg 383

<210> 3377
 <211> 384
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-067-Q1-E1-C11
 <400> 3377

cccacgcgtc cgggtgggtg gtgaacagct tgggagacct tggaagtaag gatattatgc 60
 aaggactttt attaagatcg cttttatttg ttcccgaaa tagtgagaaa atgttacaaa 120
 aagccttgca ggctcgtgca gatgctttga taccagattt ggaagactcc gtaccgaaag 180
 atgagaaggt cacggctcgt aacctcgttt ccaaaatggt gccttcgtta agaaacaata 240
 ctccaaagaa ggttcagata attccaaggg tcaactcttt ttatacgcag tggtttgagg 300
 atgatttaaa ggcagttctc caacctggga tatcncagta accattggaa aggtanaaag 360
 tgctgaagag atgaaagaaa ttat 384

<210> 3378
 <211> 371
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-C12

<400> 3378

gcaccgaaaa gtagtttggt tcaaccgatt gtacgggttg ttgaaagggt gatgcgtttc 60
tggaagttgt ttttattggt tcttatgtct ccattggctg gtcgatattc accggtaaga 120
ggatgatggt tgagggaggg gttttaggt gcactgacac acaacaattg tgacaagggt 180
tcaactggtg tgaaaatatt gggtttggtg ccggaagaga ccgctaggat gtcgttggat 240
gacaacacaa acacggtgaa tagggtagaa acgggacatt tggaagagtc gacccataca 300
cataacgacg atcaggaatc caacttgtga gttttttag atggaatgat tgtatgtagc 360
tctggaaaag a 371

<210> 3379

<211> 335

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-C5

<400> 3379

aggaaaactt ggatagaaaa gcagaatact agtctttttg ttcaagtatc caacttgcaa 60
ttatgaaaac aacgctatgg aattcgttta aaagaataat tggactctcc agtcttgcaa 120
cctagaacac taacgcttct tcacaaactt actcacgatt attccataca gcacggaata 180
ctagtattcg tacatccatt ggaactgaca gtttttggac ccagaaacac ttgtttgata 240
ggaaagggtt caatattccg aaccgaaagt atttcctcaa accacgtcaa gacgactata 300
ttcactttgg tggaagaagg gagtcggttt gggat 335

<210> 3380

<211> 319

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-C7

<400> 3380

acggttccgc gggatggcgc cttctctagg caaactttgg gtttatcctt cgggagtggt 60
ttttctaggt gcagctgttg ttttgtatgg ttgcaacac gataaattgc cactagagag 120

agtcacgttt gcaaaaacct tttcaaagcc cgtttcaaaa gcagataatc aagttgttcg 180
 agcaacaccg gaagaatgcg attgtcttcc gctttggcag tgtatgacta gtggccaaga 240
 cgactgttct caacttgaac gtgaactgag gctctgtatg gaacgaaaca aggtaagggg 300
 acaacacaag cgactgag 319

<210> 3381
 <211> 367
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-067-Q1-E1-C8
 <400> 3381

agcccacgcg tccggagtgc tcagaaacta aagtttctga ctatcttgaa gaaaccttca 60
 tggtcgggaa cgaagaactg tccacgacag gcgcatcact gggggtcgcc tcttctatct 120
 tgttacccaa gaaattcggg gaagactttc ctttggagag ttctggcagt aaaatttcta 180
 ggggtgtttt gagaccggat ttgatagacc tttggaatgg tctagtggat gagcgacaca 240
 tgcgcagggt aaatatatta tctgctgcta gtgggttagg caagactata tatctttatc 300
 tgatcgctgt ctttgcccga cactttgaaa tcccagtga gtatattgga aacacgagag 360
 atctgct 367

<210> 3382
 <211> 380
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-067-Q1-E1-C9
 <400> 3382

agcccacgcg tccggcgaaa caagagaagg gaagtaaaag gtaagaaaat acgaggcgac 60
 ctgggttttt ttccatccca cgttggttagc ttttgtatgt acactcgttg gttgtattgc 120
 attgttgtgg tttctattac aactggctat tgccaatccg caatatcgta gttggaaaaa 180
 agagtggata gctatcgttg ttgcgtcgat aggtttggga gaaggattgc tatttacgtt 240
 gatatacagt ggacaaagtt tatgaactaa gggttggttt ccctggtagt tgaggacagg 300
 tgaaatattt tcttggttgc ttgtctcact cgtcgagccc cttgttgtaa taaattgccg 360

ctagcctcca tttctttcgc

380

<210> 3383
<211> 351
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D1

<400> 3383

agcccaagcg tccgcagttt tggccttgtc tttgccaaac actcctctgg actcttcatc 60
acacaactgt ccaaaattca tatttcagtc attgtatgca cacaatgagc agaagagtaa 120
aaatattttg gagacatcaa gcaattatcc caatagaagc tcataaagag tattcctcag 180
ccaaagttac cggagccagg catgggtcaa ctagctgcca gttcataacc gttgagattc 240
cctctgatat cagatagttg tcgcgtgcgg atgggtttcca gcaagagatt atgttattga 300
tcaaacttct gaattatcta tcagaaactg ggagtccaaa cgagagataa a 351

<210> 3384
<211> 398
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-067-Q1-E1-D11

<400> 3384

gtgtgtcatg ggaagaagag gtggcagtg tgctgctaga agaactccgc taagggtcaaa 60
acctcccctt tttgcaaaaa gagaaaggga agaagcaaca acgaaacagt cttcacgtcc 120
tgcgtcttcg ctggccaacg tgaagaataa tcctacgagt ggaaacaaaa gagagaagac 180
caaccaaacy acgaccctc caactcagaa gcctagtatg acctcttctc tttttggggg 240
aatgctanga agtatgtcc ccatgttttt atttatgaac tgggttcaaga ggaatccccg 300
ggaaagggaa ccagacaaag atgagatagc tcagaagaag tgtcagaggc ttgcgtgcaa 360
tattcaagat tgtttgaaa aaaacgacta tcagcaaa 398

<210> 3385
<211> 115
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D2

<400> 3385

agcccacgcg tccgccgctt aagttcacga aaaattctac tggagacttt gtggaacgtg 60
atccggtctc tgctgctgac gtgaaagcag gaaagtcctg cgttcaattt ttgga 115

<210> 3386

<211> 356

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D3

<400> 3386

cacgcgtcag ggaaagtga gaacttacgg gtggatatgg atgccatggt tatttggaag 60
ctactggaaa tcccaagagt gttgaacaag gtctctagat gattcggagc gatgggtgat 120
ttggagagtt tagtgtagtc aaagacaaga ctgctgtgga gtggacgatt attggtgaga 180
caaaggagtt gggtatacta ggagcacggt gcactggtga taatggatat aaagtagcta 240
ttgatatgat tctccgtcac caaattcctg gtggtcgtat tggtactcac gaactaagct 300
tagacaatat tattcaaggc attcaatatg tcaacgagtg gaaagagtcg attaaa 356

<210> 3387

<211> 362

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D4

<400> 3387

agaggacatg gaaggaaggc gcagtatcct aagcaagtgt ggcacccctt tggaggcaag 60
tttctcatc cgagggattg gaagaagcac acgaatatag ctacccttat tatggcactc 120
actgtgatcc ctattagtta ctatgccgag aagcatactg tctattacca gtatccttat 180
cataagattc cttggaggcc caatttgaaa acttttgatg aagatttgga ggagcgaaga 240
aaggccaaga tggagaggaa gagtgttgca agcgatggtg atgaacagct cgattcgtag 300
aacttgggaa aaaaggcatt ccttggtgtg ttaagtgttt tcgataaatg cacttgtcaa 360

ct

362

<210> 3388
<211> 370
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D5

<400> 3388

cccacgcgtc cgcccacgcg tccgcccacg cgtccgattc aacgaacgat gaagttccag 60
tacgttagtc ttttattggc tctcttatgc gtaggttctg ctctggctgc tgaattggca 120
cctggaattg cgaaaaaacc ggtagagaga ggatatgagg aaccctgctg taccgaatat 180
tgttattggg aagaaatatg tatcacaccc acaccacac ctacaccagc ctactattac 240
tattattacg caagagatgc aaaacaggaa aatgtcgaga gaagcgtaga aaagagtatc 300
tcttccgcag aaaaatctga tgcggttcga gggattttcc ccacgtacta ctattatgag 360
actcctacat 370

<210> 3389
<211> 355
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D7

<400> 3389

agcggacgcg tccgcccacg cgtccgcgga cgcgtgggta tcccagctac ctgaagcaga 60
tatgacgagc atttctcgac gccaaatgat tgccaagact tgcggtagcg atgggaggaa 120
gagcaggaga agagcttatt tttggggatg acaatgtaac ctccggtgcg gaaagtgact 180
ttaccaagc caccagactt gcagaagcca tggtaacgag gtacggaatg acggataaga 240
ttggcaaatt tgtgttgggg agagaaacag agagtcccga aatgaggagt ctcacgcacg 300
ctgaaatgaa aaagttgctg gacgaagctt acaatcacgc caagcaagtt ttgac 355

<210> 3390
<211> 397
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-067-Q1-E1-D9

<400> 3390

atttgagctc tgttttggca ccgttttttg tgggtttcac tctgtgtgtt tgtcttttta 60
aaactcgaag actattttatt tcttgttatg ttttagagaa ttctctagac tgtgtttttt 120
gggcttgta tacgccatgc ttggtggttg gtgattggct ctagagacaa agagtattgt 180
tactttcccg ccattctcca cagctccaac caccaacttg tatacgcata catatacata 240
accacatatt actcgagagt cgtggtgtaa aaaacgacaa ttcgaatggt tgaaaaggct 300
tgataaaaag caaaggacta gtgaagggtg tagagaaagc acttganaaa gggggccact 360
tccttgata tttgtgcccc tagtaactaa ctaattc 397

<210> 3391
<211> 374
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-067-Q1-E1-E11

<400> 3391

aggtaggcat ttcgaagctt agcagtcctt gtgcgaagaa tgcatatcgc gtgtgtggaa 60
aggaatgata tctattggac aatctgttga cgcgtgagac ggaagaatca cccatgggtg 120
gagatatgat actttgtgaa tatccatatg tcgaaatgaa gcgttgatc atcatgcata 180
atctgagtga gcacgtcatt gaacatgggt tgcaatggga aactgcctgt ggtagccatc 240
gttcttttcg ctttcacatc ttcgatagtt gtagtatcaa catatgagtt gcctctcggc 300
gaatacatcg taggtttctc aatcctactc cttacaaggt gtcggtttcc cagacattgt 360
ttgattttat ccat 374

<210> 3392
<211> 366
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-067-Q1-E1-E2

<400> 3392

agccccacgcg tccgcccacg cgtccgggtg caaagaagaa aacatgtcaa agtttgcctt 60

gcctgcattg ccttatgact acagtgcctt ggaaccacat atcgacacta tgactatgaa 120
cgtacatcac aagggccatc accaaactta tgtcaacaat ttgaatgggtg ccatacaagg 180
ggaacatggg ggtcagttca aggggtctctc catcgaaaac atccagagga atgctgcaaa 240
ggcacctgat gctatcaagg cagctgtgag aaataatggc ggtggtcact acaatcattc 300
cttgtttttg acactcatgg caccacaggg gatctgcaaa tagtgcattc cactgtgagt 360
tgaaac 366

<210> 3393
<211> 345
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-067-Q1-E1-E4
<400> 3393

agggctatgg gaaaagatta ctacgcaata ctaggcgtag atagaaatgc cgatgaaagt 60
gctttgaaaa aggcttatcg caaacttgct gttcagtggc accccgataa gaaccctaatt 120
aataaagagt ttgcagagaa gaaattcaaa gaaatatcgg aagcctacca agtggtgtcg 180
gacctgaga agaggaagat ttacgatgca tatggagaag aaggcttagc cgcacaaatg 240
ggaggcgggtg gtgggtgcaaa tgggtgccccaa ggttttgggtg gattctcttc aagtgggtgga 300
acaacattct tccgaagtac gttcaaagat ccggaagagt tggttc 345

<210> 3394
<211> 352
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-067-Q1-E1-E5
<400> 3394

agaaacgacc aacggcttat ttattgtcgg tggttggtggg gggtgtgtgt gtgttcttgt 60
catgtcattt caaaaagatg aagaaccaca cgattattta ttcaaaattg ttctcgtggg 120
cgattccgga gttggcaaat ccaacttggt gtggcggttc accagaaatg agtttcacct 180
cgactcgaaa tccactattg gagtggagtt tgctaccaa acatttcggt tggaagatgg 240
aaaggtggta aaagcacaga tatgggatac cgctggacaa gaacggtaca aagctatcac 300

cgctgcctat tatagaggtg cctttggtgc tttgttggtg tactatatta cc 352

<210> 3395
 <211> 393
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-E9

<400> 3395

aggaagatat ttcaaagctt actattcctt gtgccaagaa ggcatatcgc ttgtatggaa 60
 aggaaggata tccattgggc gatttgttga cgcttgaaac ggaagaagca cccaaagttg 120
 gagataagat actttgtaga catccatatg tggaaaggaa gcgttgtatc atcgttccta 180
 ctcgatttga gccgttattg aagttggttt ggaatgggaa aatgcctgtg gagccatctt 240
 tcttttcgct ttcgcatctt cgagagtttt gtaagcaaga aatgagttgc cttcggaag 300
 accatcgtag gtttctcaat cctactcctt acaaggtgtc ggtttcccag acattgtttg 360
 attttatcca tcgtttgtgg ttggaagaaa ctc 393

<210> 3396
 <211> 387
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-F11

<400> 3396

agcttttttg actttggatt tgcacgtgtg ggtgtgctca gtcagaactg cttctcagtt 60
 agttacgcaa tatgcctagt cataaggaac aaaataaagg aattaaaata tcagctgacg 120
 gttacgcact aaagttgagc ggtattcggg tggacgtaga cggcagtttg gtcactatgg 180
 tggacgcaga cgacctcaga gccctcatgt ttaaggaaag cctcaaggaa aagtcaaagc 240
 tgcattgacc aaaatttttc aaaagctatt atgaggagaa taaggactac ttttattata 300
 tgactcatag ggagaagaaa atgtttcttt ctctggaagt tgcacgagaa tacgctactc 360
 tgggtgggaaa ctcgtttctg cagaaat 387

<210> 3397
 <211> 363

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-067-Q1-E1-F2
 <400> 3397
 acgcgtcagc ccaagcgtcc gggcaagtcc aacgtcgttg actgatttgg tgggaataag 60
 ctctttttgt tgtggttttt ggatgcaagg cacgtatccg taccgactgt cacttattgg 120
 tcgtacactt tttcacaagt ctgccccaac ccactttttc aattatttaa gagacagtgt 180
 tcaaaaagct agacagcaag aagtggatcg aaaacaattt gagttgttaa aaatacagtg 240
 tgactatatt ttgcaagacc cgccattgaa tccaaacaac tacttagaac tgctgaaaga 300
 agcaagagaa ctcttaaaat tcaaagggtt ccgcgaaaag tttgatgtag tgaaacaaga 360
 ccc 363

<210> 3398
 <211> 347
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-067-Q1-E1-F7
 <400> 3398
 agcccacgcy tccgcatcga gacaaaattg tattaatgga cgatatgttt tatgcgggaa 60
 atgaaaattt gccgtgtctt acttctggtc gcgatgccgt gatcgaaaac ttgaggaaac 120
 gttttatgcc tggacaaact cgacatcaac gagctcaacg aatgatgaga cttatcgacg 180
 aaagtatcga taattggcat actagatggg atgatcgata tcaacgtctg tatacgggaa 240
 ttcattgaga tgtaatgcac aggttgtgga atattatatt cattttgata tataaaacgt 300
 gtatgtatgg gatatatata tatagatata tatatatatg tattaac 347

<210> 3399
 <211> 314
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-067-Q1-E1-F9
 <400> 3399
 agcacagatt cctgttgata ttcagtggaa gatttgtcat tatatggaag tattgtgtga 60

agaatcgccc aaagttcccg ttgcagtgat tttaaaagta ttttacgatg aagatttggt 120
tgaagaagat gtgatattga agtgggtatta ctctgaaaac agaggagtgg gaggaaaggt 180
tgcaaggaac aatgcttcta tgttgggtga gtgggtggag aatgctgaat cagaaagtga 240
ttcttcagcc tgattgtgtt gttatgtgag tgcttgtttc gtgaaataaa agcgattcct 300
tgttttctgc accg 314

<210> 3400
<211> 288
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-G2

<400> 3400

cacgcgtcag agaaatccgt taaataatcc gaataccaga ttagttgta gttatttagg 60
gttggatgaac actgcttctg caggtttatt cggttatgat aaagagaaaa gcgagaacgg 120
gatgttggga agttcctgaa aagggtcttt gttccactgc cgttggttg tggttggttg 180
ggaggttttg tggctatgaa aaagtttcac cataagacaa agaaacagag ctttcttcaa 240
aacgattatg cctgtgttgc agcaaatgtg ggaatgatag gattgggt 288

<210> 3401
<211> 361
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-G5

<400> 3401

agtctggaag tgtgctagga ataagcagga gaagtagaag agagtaggaa aagaagaaag 60
gagagggcgt aagacgtgat acagagtagg aagaaaagag aagagagcta gaaaggaggt 120
aaaagaagag taaaaggact agaagaggta cggaattcac gaggaaggag cgtgaaggaa 180
ggaggaatcc caagtaatcg aggaagaaaa agcttcggtg aaagcgtgaa cggattttgt 240
acacactgcc cgtcaagttc tggaagtgtg ctaggaataa accgagaacc ttacctctcc 300
aagaaggtgt tgcacggctg tcgaaagaac gtgctgtgaa gtgagagaac gtacgagaaa 360
g 361

[illegible]

<400> 3402

<223> Clone ID: LIB190-067-Q1-E1-G9

<400> 3403

<210>	3404
<211>	223
<212>	DNA
<213>	Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-H12

<400> 3404

agtgagtcgt atcatgcgtc cgcccacgcg tccgggacgc atgttcggga cccattcgg 60
cggcgacaca caaccgtaaa tgctgactct caggtcgatg acggggagta catgacgaaa 120
ccaagatcac cgaagcccgga gtactatatg gagtactgtg tctgcaagca tgcacgtatt 180
tctaccagat agtgtaaacc gcgtcccttt tgcataatgt ccc 223

<210> 3405

<211> 381

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-H2

<400> 3405

cacgcgtcag ccttgcaatc gtatcttctc gttgctttga ctgccaccgt tgccgctggt 60
tttacaactt tagttacgag atacaagcat gtatttagta tgttgagagc tagatggttt 120
agggacgtgt ttgaagattt gcgcttaaga cttcgagcaa gtgaagccgc cgccataagg 180
gagagattgg acttgctaga agctaaaata ttgtcttcaa gcaacagcag tagacgttct 240
gtgcattcgc ctcgtacact tgcagaagag aaacctattc ctgagtggga tctagttacc 300
agagaagatt tcgttactct tcgaacgaga gtagatgata tgtccaaaga gttgactagt 360
atcaagtccc aagctgacaa g 381

<210> 3406

<211> 392

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-H4

<400> 3406

gtaagagtaa aacaattccc aagcccaatt aaagtagttg ttttatattt cgctgatatg 60
cctttgtttc tcaaaacata ttgaaagctt ttgaatgtgt taaagagact gatttttctt 120
tatttttggtt ttcgtgctat aatttgttta tgtttctctg ttgtcgcctt tcttctattt 180
ctaaaggaca agcctttgaa cacgctgtgt tgttgtatct ttcctacttg gggtttttgca 240

tacgtagtac tggaggagtt ggtgacgggg gtatcgactt tçgtggaact tggaaaccta 300
 ataaagcaat agagcctgta cctgtcgtcg gtcagtgtaa aacattatca agaaaagttg 360
 gtgttcacgt tatcagagag atggaaagaa tc 392

<210> 3407
 <211> 396
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-067-Q1-E1-H5
 <400> 3407

agcccacgcg tccgcagaga ccttccacaa atgacatgaa tgaagcaagt tgctttccgt 60
 aaattgaaag gcattgtatt acataccaag tgtgttgtaa gacttgagtt actgcacatg 120
 ctcttttggg ttgttgcttc cgacaccgtt ttgagtaaaa acttccgaag taactatctc 180
 ttttcttgtc cacgaagact tcaaagggcc aaaaacattc gtacttttat tgctgcctca 240
 ctatcaagag tatttgtagg aaactctgtt ggttccacag tgaatggcac tcacgttaca 300
 aatattcatc caggaatggg tgtacacctt gaagaagagg aaacacaaca tctgagagct 360
 cgtcgaatag aagaaaatca agtggttgag gttttc 396

<210> 3408
 <211> 381
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-067-Q1-E1-H9
 <400> 3408

agaggatcca gttccttata gtaatagagc agctactttg accaaactag gacaattccc 60
 ttctgcttta gcagattgtg aaaaatgttt gcagctagat cctcaatttg taagagctta 120
 tgccagaaaa ggtgctattc atttctatat gaaagaatat cataagagtt tggatgccta 180
 tcaacaagga cttcaagtgg atcctaataa tgcagaattg aaggaaggat tgcagaaaac 240
 tttgagtgtt attgcagaac aacaacgctc cgagaaacct gatgaagaac aaatcaaaca 300
 tgcaatggca gatcctgaaa ttcaaaagat attgatggat cctgtattac aaaatttggt 360
 acaagaagcg caatcaaatc .c 381

<210> 3409
 <211> 435
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-068-Q1-E1-A2
 <400> 3409

aaagaacaac gaagcatttc tgattgtcaa ctatccaaag gacgagatga gttgggacaa 60
 cgatggacag cgcctttgga caggcaaaga cttttagtaa tatgtcaagt tgagatgggg 120
 aaatccttta tttcgtagaa attgctgttg gtatagtaca ggcagtatag tatcttgtga 180
 cactggaaag gttttacaga gttgggtttc gtgtgagttg ttgagatcaa tagtacgatt 240
 atttaggtcg ttgcactgct tgaagggtta gaattaggaa tggatgaagag tatatcccaa 300
 ccatctagta atcaagcaac agtagaagct ctagtttctt cgaaaaaact gtattttctc 360
 aaggatccag taacangaaa gtattggacc gaacgagatt ccaaacgagt aaatccacat 420
 gtttatcctc aaaaa
 435

<210> 3410
 <211> 274
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-068-Q1-E1-A3
 <400> 3410

cgctccatg gaaaaaaaaa aaaaatcaga atgataaaaa aaaaaaaaaag aacaaaaaaaa 60
 ataggaaaaa aaaaagaaaa aaaaatagaa aaaagcaaag actttgtaaa aataaataaa 120
 attgggggtg gggaaaatca tttaattcgt aaaaaattgg tgttggtata ataatcgca 180
 ctatagtatc agtgtgacac tgggaagggt ttacagagtt gggtttcgtg tgacttggtg 240
 agatcaatat taggattatt taggtcgttg cact
 274

<210> 3411
 <211> 372
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-A6

<400> 3411

agcaaaacaa caacaacaac aacaaccgtc atcatatctg aaacaacacg tactccacga 60
acatcgagct tgggtcgttc tttaactact tgtactatta aggaacctga ccagatattt 120
cttagttctt cttttcctcc ataacaacaa tgaaaaaac cagcagatgc ttctcgttgg 180
ttggaaataa aggtttggct gaattggaac gtatggaaaa tattcctttg cgtgaataat 240
aaagttgttt tcaacttatt tcttggcata taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaataaaa aaaaaaaaaa caaaaagaaa aaaacaaaaa tagcaggaaa aaacaaggac 360
ggtgctaagg at 372

<210> 3412

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-A9

<400> 3412

taaaataacg ggtaaaacca aacaaccggt taaaattcg ccctttctaa aaaaatcttc 60
gacgcacagg gatatgaagt tcccttcaag gtggagccca ttgatgagta ctgcatccaa 120
caactcaagg aatacgatgg aaataacccg gtttgcgcta tacaggaagg tctgaaattg 180
gacgaaacat atgaagataa catagagaat gaggaacaaa agaagtcttt cgaacagttg 240
ttcactgtta ttaacgaaat tcttggagac aaagtggaga atgtggtagt ttccgaaaga 300
cttgcggaat ctccatgtat ccttgttacc ggtgaatttg gttggt 346

<210> 3413

<211> 410

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-B1

<400> 3413

acgcgtccac ggacgcgtgg gccaatctt caaaagattt tccttcactt gcaaactatt 60
ttacatcttt gctacatacc aagtgccatc ctgctgcacg caaaccaaca taaaagactc 120

gaagcgacag ggaaatattt actccacttt tgcgtgaacg ggtttttagtc atcctgggttc 180
 ctccccagac cctcgtcttc caaggaaca atatcctgga agtcggggtt cgagtcacatca 240
 ggcatatttc tgtactctgt cttttgtcgt agcacatttg aagccttgtc ttgtggaagt 300
 aatccttctt cgaaaagtgt acgaaaactg ccttgccaat gtttgcgtt attatcacta 360
 agataacggt gatgatacac agaagatgct tgaatttccc ttttaaaact 410

<210> 3414
 <211> 398
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-B2

<400> 3414

cccacgcgtc cgcccacgcg tccgcccacg cgctccgcca cgcgccgcg gacgcgtggg 60
 tgggtgttga acagccactg ttttgaaagg tctgggggttg gagttgcttg gttatgatgt 120
 gtttcctaata caagacttta agaatttggg tggtcgatat gtggagttga atgagttgct 180
 ttctcagtcg gatattgtga gtttacattg tccattgaat gagaatacca aacatctcat 240
 ccgtgcagaa acgctttcta taatgaaacc tggagcttat cttatcaata cgagcagagg 300
 agctttgatg gatacgcaag cagtattgga tgctttatat tcaggacata ttggggcctt 360
 ggcaaaggat gtatatgaag gaaaaggaàa cttgtttt 398

<210> 3415
 <211> 411
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-B6

<400> 3415

ggccgaccca cgcaaccacc cacgcgtccg cccacgcgtc cgggagaaga gagaggaatg 60
 ttggcggttcg tgtatggaca aggcggttgt atactacaac aacagcaaca acactcttta 120
 caaacaagaa ggtgtttcct aggaaccaa aactattttg tcgggaagaa taatgctact 180
 gggaaaaaca caaaaacagt agttttcaaa agacgaaaac aggtagtagc tgtacagacc 240
 agtcatgtcg acagtctagg ttgcacgagg gaccagaaaa agaatacaagt tgagtttacc 300

caagttcctg accagagagg acactttggt agatatgggg gacaatttgt tccagaaact 360
 ttgttctttt gtttggaata ccttacaag tgtttcgagg aaaccacaga c 411

<210> 3416
 <211> 397
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-B9

<400> 3416

tttcttgtgc aatattcatg ctgttggtgt catccgtcaa ctaacactat attgattttt 60
 aatggaatag cattttctta gaatccattg gacagacact cctacacgag ctggttatcc 120
 aaaacaagat gtgcccttct accagtgtc atcatcactt gactcatagt gaaacccaaa 180
 agcttcgttt tcccacgttt gtagatctcc acgttctttg gatacgagca catactagcg 240
 atattcaact gctccaacat gtccttatcc gttagctgtt gcaaaccacg ttcattctaca 300
 atgcatttta atgagccacc tttttccaaa atgaatcgaa ggatatcatt cgcaattctc 360
 aactgagtg tcatattttc aatgacggag attattt 397

<210> 3417
 <211> 429
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C1

<400> 3417

aaaaaatgt ctgctgaacc ggtgggaaag ttaaactctg gtgcaactat tcctcttcgt 60
 ggctttggaa cctggaaagc tgagcctgga gtggttggtg aatgtgtgaa aactgcttat 120
 gacgtcgggt acagacactt tgactgtgct gctatatatc agaataaaaa ggaaattgga 180
 caagcttttt cagaactttt ctccagagga gtgaagagat cagacatatt tgtcacttct 240
 aaagtgtgga atacctgcc aatcctcaa agagtggctg aagcttgtaa acaaactctg 300
 caagatttac gtctggatta tctagacctt tacttggttc actggccttg caactgggag 360
 tttatgggtc tgccatttac tgcagataac tggattccta atgataatga tgggaacata 420
 aagttttcc 429

<210> 3418
<211> 358
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C11

<400> 3418

acgcgtccac gatccgtcga aatattcaag ttgatatcca catacacagt ttagataga 60
tatgtatatg ttgaaacggt ccatttcctc tagttgtaag ttatacagtc aaattctaga 120
ttctccaata cgttgtctac ttgttggttc cactccgagg cagtcccatt gggtttgtac 180
gtctagtcca cgagatgggg aagaagagga aagcagcgtc gactttgtca agtcttatca 240
gaaaaagttc cgatcctctc attctccttt ttggatttg gaagaggaag gcctgaaaca 300
aaaggcttct gaagacagaa aagctttggt gagagagttt tacaaatata cagttttt, 358

<210> 3419
<211> 401
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C3

<400> 3419

agcgagcgaa acgcaatctc acggtttctg taccgacaat cgatgaacaa cttcatctgc 60
atcaaagtgt caaaagaggc tttcgtccag aagaagaagt atacatgagt caagttaccg 120
ttggatcaac tcattttatg cttccagatg aaagaaatat gtatggcttt acgtttggag 180
gagttttaat gcgaagagcc tacgaattgg ctttcgtcaa caattatttg gcgtttcaac 240
aacgtccaac ggcagtagaa gttggagata ttagctttat caaatctgtt ccagtgggca 300
gcattttgga actgcattct tctgtagtgt atacaaaaga tacttatcaa gtagttttag 360
tggatgcgat ggtgaataat ttgatgcacg accctccaac c 401

<210> 3420
<211> 418
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C4

<400> 3420

acccacgcgt ccgattgttg gcaacgacaa gagatgcgcg gctggtggct atggagtttg 60

ttgttgggtct gtttgtgttt gttcccacta tccaactccg ttcaacaaga tgaagcgttt 120

gttcttattg gtcctcttcg tgaaaaggat gagcacgcaa cacagccttc acaacctgtt 180

gtaaagccac atggtagcaa aacttggaag ccgctccagt gtactcccaa caaggaaaaa 240

gcagaggcat tgatacaaaa ggcacaaaat agtttgagtg cgcttttctc aaaccggttg 300

ttcaagcata tagacgtcga aagttgtcaa gagtttagag tggtcgaaat aaagcttgac 360

gaaaaagggt tgaatttga taatggacaa gagcatatca aggaaagctt tagaatat 418

<210> 3421

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C9

<400> 3421

acgcgtccaa gaaaatggaa tttttcaatc aaaatggttt tcgtcgtatg aagaatactt 60

gtttggatga tggctgccgt gcaactaggc agaacaagaa ttgtgagcgt aactatccaa 120

atgagaaatc ctatgcagct tccaagaagc acatatgtaa agaattatctt aaaggtgata 180

acaactcgtc ttcattccag aaagaaaggg ataccacagc tattcaaaca caagaagcaa 240

ttatggagca cagatatcat tcaagtaacg acctttcgga ggagagcggg catctaagaa 300

cccaagatac taacgtgaaa caaatgagc tggcaaggta tttagaggaa gaatatcaag 360

ttgcaaagaa caatgtgaca gaaaaagtgg atgactcatc aactcgttgt tctttggcac 420

taatgg 426

<210> 3422

<211> 420

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D1

<400> 3422

agttaccttc acttgtgggt gggattgttg cgcaatgttc aagtcgctag cttttatttc 60

catctatttg aaatatccac gctgcagtag ctcggtgcaa acaaacgcag cacgaacaat 120
atggaaacct ttattatcaa cgtatcaaca gagactttat tccggaatgt ccgttgatat 180
tcggtgggtc acttacaaaa accgaaagtc gtacacttca agtatactaa gtttcaagtc 240
ttcctattcc acacaaggag gagacacgga gggcaagata cctcattcta aagatatgaa 300
aggagaacct cagtccgctt cagatgctta cgacaagact tgggctaaag aaaacttcaa 360
agacacttct gaaaatgcag actccgacag ttccaaaatt tgggagttga aactacgttt 420

<210> 3423
<211> 307
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-068-Q1-E1-D10
<400> 3423

acgcgtccac caacgcgtccg taccatcgta ttccatttca cattcttctt gtagaaaact 60
atgaagtctt tcggaattgc tattgttttc ctaagctttg ttattgcac ttatgcagca 120
gttggtgccg aaatggcatc caatgagttt caaagaggag gatacgctcc ttctccttcc 180
aaggaatgct gcatgaccac ttgtcaatat gcagaacttt gcccaatttc tcaaccaact 240
tatagccaag ctccatctta cattccatct cctacctatg gccaaagctcc gtcctacaat 300
caatatt 307

<210> 3424
<211> 348
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-068-Q1-E1-D12
<400> 3424

atgaagatat ttcagtttaa cgtggatatg taaagcagct gttcaggtgg gggtactttt 60
attatactct agcagacact ggaaccaatt attttcgccg ctttctgaat cttcctatgg 120
aaattgttcc ggaagctaga aatcaacctt tcagattccc tgggtgttcgt tctttgtcgt 180
ttccacaaga aggtcaagga tggagaatgg atctggaaga ggagacttcc gacgcgaatt 240
tcgtggaagt tttggtggat gaaagggatg ttattgtact ttagaagatg gtccttaagc 300

attgttttgg caaccataaa gatttagaaa cttctattac caatcaag

348

<210> 3425
<211> 431
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D2

<400> 3425

aggcaactgc agtgaagga aaacaagaaa cagcaaagga caccaagttg aagaaggcct 60
ttgacctcaa gtcattcttg aaggacctgg cagctggagg tgtagctggg gcaatctcca 120
agacggcggt cgccctatt gaaagagtga agttgctact tcaagtgcag tattcaaattc 180
cgcaaattccc ggaggagaaa cgttataaag gcatcatcga ctgttttaca agagttccaa 240
aggaacaagg gtttatttct ttctggagag ggaacatggc aaacgtcatc cgttactttc 300
ctacgcaggc ccttaacttt gctttcaagg acaagtacaa cgccatattc ttggaaggag 360
ttgacaagaa taagcagttt tggaggtatt tcgttggcaa tcttgctgca tgggggtgcag 420
ctgggtgggac t 431

<210> 3426
<211> 426
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D4

<400> 3426

aatcagggaa ttttgtccga gagttgtagt ctccgtcatg tcttcctgtc ctccagcagc 60
ttctttcttt gggttatattg gtgctgcaag tgcccttgta ttttcaaatt tgggtgcagc 120
ttatggtaca gcaaagagtg gtggtggcgt tgcttcgatg ggtggttatga gaccggaact 180
tggtatgcga tctataattc ctgtagtaat ggctggtgtg ctaggtatct acggtctcat 240
cgttgctggt attttggttg gacaaattgc cgaaacgaac tatccatatt ttcttggctt 300
tgcacacctt gcttctggac tagcacacgg tctcagcggc ctggcggtg gaatttgtat 360
tggtatagtt ggcgacgcac gcgtccgagc tacagctcag cagccaaaac tctttgttgg 420
aatgat 426

<210> 3427
 <211> 424
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-068-Q1-E1-D5
 <400> 3427

acgtattttca tcaattcttt gaaggatttg ctgtcgggtac tactgtttcc gaagcccagt 60
 ttggcacttg gaccactata gtaatgggtac tttgctattc tttggaaact ccaatcggta 120
 tatctattgg tatttggtatt gcacacactt atcaggaaaa ctctcgggca tctttgttaa 180
 cgagaggcat tttggatgcc atctccggtg gaattttaat atacacagga ttggtggagt 240
 tgttgactta ttggcttacg cgcaactcga actttttaag acgcaaagcc atacctattt 300
 ttagtattgt gggatttgtc tggtaggag ccactctgcat ggcgattatc ggagcgtggg 360
 ccttagaata aaatttggtt gagacgtcgt ggtgcacatg actcgcattgt ttggtagttg 420
 gttc 424

<210> 3428
 <211> 429
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-068-Q1-E1-D6
 <400> 3428

acccacgcgt ccgtgttttt ggttgtggtg ctgtagggca aatatgagtt cctttgatcc 60
 ggacaagtcc aaacaagaac aaaaagctcg ctggaatcaa ggagctttat ccacgtggac 120
 cctgtggaaa aaaactcaag tagaagatac tccagcaaag ttcttcctag gcctagtacc 180
 tattcgacca ggagtgaaaa tcttagacct tgctgtggt agtggggaaa cctcccttca 240
 agttgctcac ctagtttcca gccacttaaa ggatgaagcc aaagacgcaa agatagtttg 300
 cgttgatatt tcggacgaaa tgcttaaagt tctcaaccaa agagcacagg aaatggggct 360
 agcaaatatg gtggaaaccc gctgtgagga cgccgagaag gtcgactttg gtgcgcacta 420
 ttttgatat 429

<210> 3429

<211> 415
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-068-Q1-E1-E1

 <400> 3429

 aagtatccag aactttatgt gcaactcatg acaattcaca gccacgcca ggagacaagg 60
 cgcttccaaa caggcgaaaa caaagcaacc gtagaagcaa aactactgga aatgctacag 120
 agcaaaagag tccttttttg tggccattta agttttaata ttgttattct agttttgtcg 180
 acgaagttcc ttaattacgg aggcaagagc gtaggggtcg aagccttggt ctaacaactc 240
 tatcgccact tgtagagttt ctctgtctag tcccgtttcc aaaagtctcg ctatttcgta 300
 cgaaactaaa gactcatgaa ttttttttct ttataggata taatgcctta ctttctaata 360
 tttcgttttt cttttcctct cgttgctcaa aagacaattc gcgtgtctcc aattt 415

<210> 3430
 <211> 171
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-068-Q1-E1-E12

 <400> 3430

 aagattccgc tggcacgtat accagatgag atgtgagtc agcagagcca tgcaaagtga 60
 atggcgctgc agttacatcc aaaatgtaag agatgaattt gtgcagaaga gagggccaaa 120
 gtgtgtcaag tcttaccata atgggatatg ttttattcaa aagctctcca g 171

<210> 3431
 <211> 411
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-068-Q1-E1-E2

 <400> 3431

 acggacgcgt gggccgaaca atggatacct acttaggggt acaggagaaa cagtaccacg 60
 tgctttgatt aatatgcaca gtccatttct agatgttaac tgctacagtc tagttgtaga 120
 caatcttttc agcactcgct gactcatagt atatttgcaa tcttttatcg actccacctg 180

acctccccgag gttctgcaga ggttaccctt tttatcgaaa caaaatgatt tttcgagtag 240
 tgaatgggca ttttaactgt ttctgttgat agacttgagt gttgaaagat tccgcagttt 300
 gtcttattag atacagcttg acaattttgc cggaagtctc aatacgtttc aatgttatcg 360
 actacaatat caatttatcg tgagatggta tgtaaaaccc agtgtttttt a 411

<210> 3432
 <211> 253
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-068-Q1-E1-E3
 <400> 3432

aaccacgct ccggaacaag ttttatcggt gctggcagta tatatcttca tcgatggatg 60
 tatatatccc aaattttggt tctcttaaat actgtgcac gatatacttg gttcgtatga 120
 ttggatatag ttgctttggt ttgctacaaa atacggagag aataaataat agatgtgatt 180
 tccaataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaaa 240
 aaggaagaag atc 253

<210> 3433
 <211> 379
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-068-Q1-E1-E5
 <400> 3433

aaagcagcat taccgaggac tggctagaag aacttgaacg agttaattga ccttatggtc 60
 ctaccaatac gattgttcaa gtctttcatg accgtcaagt tattcatcga gaattgattc 120
 agcaagttca tcattctagt gcaagtcata ttccactgac tggggttgct gcagtctatt 180
 accgtaataa atctagtatt cgactagcag ctctgtcttc aggtcaatat acgattcaag 240
 ttttgagcat ttggctaacc accgcataaa tgatatgatt ggaataagaa cgaattcctc 300
 aatgttaaaa tggtgtcacg ttgtaggaaa tatatttaca caatagaata ctgctctcct 360
 cattggacga ctttgtatt 379

<210> 3434

<211> 383
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-068-Q1-E1-E9

 <400> 3434

 aattagttgg gcgcttgtgg tgggtgtgtg gctggcaaat gagcaaattg gcagagtttt 60
 gtcaaaaagt accaggactc cgtggactgt acaacttttt agctcgctg cagataagag 120
 gtgtagaaag agaattgcgc aagtactgac tgagatacga tgaccttctc aacgagcaag 180
 atccgatgt gaaaaaagct cttgaaatgc tcccggaaca tgagaagcag ttgagagcca 240
 agcgttttat tcgagcgttt gatttgtcca tgaagaagac tcacttatcc gatgaaataa 300
 caaaaagga agatatgttg aacccatatt tgagaagtcg catcaagctg attcgtaaaa 360
 aaaagcatcc aaattgagac tta 383

<210> 3435
 <211> 428
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-068-Q1-E1-F1

 <400> 3435

 agataagtct gtcaagttgt ggaacattca aaatggtaa gaggagagga cattgaattg 60
 ttcaggatcat aagaaaggaa atggatgatg aataacttct gtttcattta gtcctcgttc 120
 tccttatcgt attgcaactg gttcgttga aaagacagt agagtattcg atgtagagac 180
 cggatgaactt ttgcacaatt ttcgtcaaca tgcagattct gtatattctg ttgccttttc 240
 gagcgatgga agatatctgt tatcaggttc acttgataag aatgttatat tatgggatct 300
 tgcagctcct tctccaaata actatacaat tttcaaaggc catactgact ttgttttgtc 360
 tgtcgcatth agcttagacg gtcgtcttct cttgagtggc agcaaaaacc gtactgtaac 420
 tttctggg 428

<210> 3436
 <211> 406
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-F12

<400> 3436

aacaacgcgt ccgcccacgc gtccggggcga cagtagagga acggtttcta cgtataacttg 60
tacgaaccag gactgtagta actggcttga gcaagggtgt tgttcaagta tagttattgt 120
agttgtagag ggttggtgaa ataaagggga ggagttgtga gacttaaatt cctatcaacc 180
gtaaccgagg gaggaagggtg tctttctgac agtggacttc agtggccgca ggtaaggaga 240
gttgacaggg aagttggagt taagtagcgc agtgtttcaa gttttcgggt tggtttcgta 300
caagtaacgg cactgctcgt acaatgggaa ttcctctgac ctgtcatggc caagtacaag 360
cgccgaaaaa gggaacaagc ttatatgtgg agttgtgggt cacaga 406

<210> 3437

<211> 401

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-068-Q1-E1-F3

<400> 3437

aattattttc aatctcacat gctttttgtg gcttactgga agaattattca accaaaacaa 60
tcaagttttg tgtttccttg ttgtactaga tgtgtaaaca ataccagttt ctttcgtttg 120
tttttcaaga cccgtccaac tagtggttaag tcaactgtcgt tactggcggt agggacaggt 180
tggaatagaa ggtctttgct caagaccatc tctgtcttg ctgcttttcc cgtttttcgt 240
atttttcctg ttcagtcagc gaataatgaa gaaattgtcc ttcccgatgg agtccgtttt 300
tggttggtga aaaaaggat cggaaaagca tatcctgctg tanggtaaga agatatctat 360
tacgttttcc tgagatatca agtgtacaca gcgaacttgt t 401

<210> 3438

<211> 366

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-G1

<400> 3438

aagagtagta cagtagtttt acacgattgg aagaccatga aaccccagaa cattgtagta 60

aatggttaca tttaaacccta taaaggactt aaaaccggga atctgcaagg aggagaccca 120
cattggaatt gccaaaaggt ccaagcacta aaattcacca ttggggaaaa ttgggcattg 180
ttcaggggaat tatgacccat ttatgaggat tggattaatc agacaaggaa tttaaaggag 240
ggaattaagg gaatttttgg ccaaaacact ttccaccacc accggtaaaa cttttgttcc 300
aagcttaaac ccacaaaact ggggtgtaaag gtccattctt aaattaattc taaaagggaa 360
aggaaa 366

<210> 3439
<211> 451
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-068-Q1-E1-G10
<400> 3439

ccgggtgacg cacgcgtcca gttatagccg gatgcattag cctttggaaa gacagctgaa 60
gaagttgaga aagaaggcaa tccaaaatgg ttagtgcctc atatggtgtt tactggaaat 120
cgaccttcct cgtgtctctt gatgcctgtc ttagacgcgt atgttacggg acaacttttg 180
gcgctttatg aacatctcac agccgtgcaa ggattccttt gggagattaa ctcatattgat 240
caatttggag tataattggg aaaagtcctg gcaaataaag ttcgcaagca gttgaacgaa 300
agcagatatt ttaataaaga tatctcaggg ttcaatccct ctactacaag tctgctcaat 360
cgatacttgg aaggttctgt angatgtgct ttcgaacatg tttatcatta tgagtagttt 420
gtttcgtgtt ttggtggagt tgattttttg a 451

<210> 3440
<211> 388
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-068-Q1-E1-G11
<400> 3440

aaaagacggt atcgtaacctg atattattat caatccacac gcaattccta gtcgaatgac 60
gattggacag ttgattgagt gtcttcaagg aaaagtttct gccattgctg gaagagaagg 120

agatgcaact ccctttactt gggttacggt agatgaaata tctcaacagt tgaaagcttt 180
 gggttatcaa agtcgtggat gggaacttat gtataatgga ttgacaggtc gaccgttgga 240
 agcgcatata ttatttgga ctacttatta ccaacgacta aaacatatgg tcgatgataa 300
 aatacattct cgtgctcgtg gccctgttca aatactcaca agacagccgg tagaaggaag 360
 agctagagaa tgtggattgc gcttttga 388

<210> 3441
 <211> 415
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-G12

<400> 3441

aagaaagatc tgcattgatt ggacgagttt tgccatttgt gtctttcact aattgcatga 60
 ccgttgcggt tcatagtccc ttgaacaccg ttattctccg tttgtgcagt agcgtaggtt 120
 gtggaagccc cagaagcggt ttgactttcc agtcttcttt tctactgctga agcgtaggcg 180
 gtactttgat actgttggtt accttgagc gcactattga aagccacgtt acatgttttg 240
 caataagtgt cagtgtcccc ctctaactgc tgtgagaatg gttatggaac ttgttgcttt 300
 tcatactttt ccttttcggt aatgcgaatt acatgagaag ccgctcccta aaccattacc 360
 tcagttctgc aaacggaacc aacttacaaa acttacagct cgattgaaag ttttt 415

<210> 3442
 <211> 396
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-G2

<400> 3442

acagtttatg gatgaaacgg aacgttcctt acatgatgct attatgattg ttaagcgta 60
 gttgaagcat tccaaggctg ttcccgggtg tggtgctgta gaaatggagc tttctaaacg 120
 tcttcgagaa tacgccagaa ctattcatgg caagtcgcaa ctgttaatct cgacttttgc 180
 aaagtcgcta gaaattattc cacgaacgtt gtgtgagaat gcacgggttg atgcaacaga 240
 cattctgaac aaacttcgag cgagacacgc gaacaatctt ccctatgtag gcattgattt 300

gagcaacggc gaaatatgtg acacgtggaa aagtctcgtg tgggaacctt cactactgaa 360
gtcgaatgtt ttatccgctg ctacagaagc tgcattg 396

<210> 3443
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-068-Q1-E1-G3

<400> 3443

accacgcgt ccgaagaaaa gaagagaaaa gccgtactga agaccgacac aggtactcga 60
ggagaaagga gacccaaatt aaggtgagag aatggacgat aaggaactag gcaaaaggat 120
atggtatctg cggtagaaca tatgaaagaa gcagcaccga ctgttttagca aaaacacagc 180
actctgcaga aaagagaaaa tgtaaagtat agagtgtgcg gcctgccaaa tagtagagaa 240
gaaatcgatg aaagtgaag cgagtaaaag atgaggtata gagaatggcg gtcctaacag 300
taaggatcca aaggtagcga agtaaataga cgtttgaaaa gcgttcagta tganaggaga 360
aacgagtgtg gactgtcta gtcgtccaac tcaacgaaac aacaataact g 411

<210> 3444
<211> 421
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-G4

<400> 3444

aatgaaattg ccaatcgtga cttggaaatt cgaggctctg gaagtttgat tggaatagaa 60
caaagtggag atgttggtc tattggcttt gaaatgtata tgaatatatt aaaacagact 120
ttggatcgac ttggaggaaa gaagattcct gttttgaaag aatgtgaagt agatgttgcc 180
ataccaagtt atataccaga gtcttatatc aagatagaat ctgaaagaat ggcagcttat 240
cgaacgttga gtcgagtcac cagtttgaaa gaaatagatt ggatatccga tagttggaaa 300
tacaaatatg gcgacttgcc tctctctgtt tcttttctac ttgaaataac caaaatccaa 360
ttgttggtta caaaggttgg tatatctgca atacaaatag aagaagagtt tgtgcaactt 420
a 421

<210> 3445
 <211> 446
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-068-Q1-E1-G8
 <400> 3445

ccgacccacg catccatgga cagattatgt agcgactcgg tggatcggg caccagaact 60
 aatcatgtcc tactacacac attattctac agccatagat atgtggagtg ctgggtgtat 120
 atttgctgaa atgctcaatc atggaagacc gctgtttcca ggaatgaatg gtttccatca 180
 gttagacctc attacgaaga tattaggaac tccttcacca gaagatttgc aacatgtaag 240
 gaacccaag acgaagcagt atttgcagtc tcttcctaga agagcacgaa aacctttttc 300
 ggaaatatcc gtgggtgcgg atccccgtgc tttggcgtaa ctggaacgtt tacttcagtt 360
 tgatcccacg aagagacctt gtgcgaaaga agcattgcaa gatatttatt tccgtgattt 420
 gtatgaggcc gactgtgaac ttgttg 446

<210> 3446
 <211> 376
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-068-Q1-E1-H1
 <400> 3446

aaaaaatctg aacgagctca tcttttggtt ccacagacat gtcgaacgac aatcagtctg 60
 ataagagcac tttgaaagaa gcggacgaga agctgcagag tgcagttcat agtggaaacag 120
 agaaagtttc tcaggtgttg agcgacgtca aggaaactgt gacggagaaa tacaaggaat 180
 ggacagcacc aaaaagtagc caagaagaag cacaagaaca agcacaagaa gcgaaagaag 240
 aggctaataa agcttttaat gctatgacag acagtgcgag tgccgcttca gaggctgcat 300
 cagagaaagc agaaaaaatt aagcaggagt tgaacgagtg aagatacaca gtagttttct 360
 cctataatgt tcttag 376

<210> 3447
 <211> 419

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-068-Q1-E1-H2
 <400> 3447
 agtgaaatga aaaacggttg tccttgatga aaaagtgtca acttccggtt ctccctgaag 60
 acgttgaatc tcaaattctg gaattattag agtatgtaaa ggatgttgct gttgctagaa 120
 tggttttaa gcgatggaag agactcgtgg atgaaaattc ccaattgtgg agacgacttc 180
 aaggctttac actacaaaa cgactgccaa gtgaagcgga aaagtggat agaaaggcag 240
 cggaatgtgg gaatcgagag gcaatgggtc ttcttgctt gctctattat tatggatatt 300
 agagtcagga tgccacagtt ttgtcttga cgtttcttcg aaatagtgtc gcttggttagt 360
 gcaacgagca ctagtgtcgt tggtgagga tttataaata aataaatttg tccttggtg 419

<210> 3448
 <211> 107
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-068-Q1-E1-H4
 <400> 3448
 atgatgataa gaacaagaaa gctggagggtg cctaaatcgt gagtggttgg gaatttgtct 60
 tggttggttg ttgtagtacc gcgcacctag taaagatata tacatgt 107

<210> 3449
 <211> 426
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-068-Q1-E1-H5
 <400> 3449
 agagaatgct ggggtggagta gcgaaacaag agaagggaag taaaaggtaa gaaagaggaa 60
 aggtttacga gagaaggaag tagaaagaag agagtgtgag gcggcgatcat aatagaaatc 120
 cgaaaggagt agaagaaaag agagagaaga aagaaaagaa gagaaaagcc gtactgaaga 180
 ccgacacagg tactcgagga gaaaggagac ccaaattaag gtgagagaat ggacgataag 240

gaactaggca aaaggatatg gtatctgcgg tagaacadat gaaagaagca gcaccgactg 300
 tttagcaaaa acacagcact ctgcagaaaa gagaaaatgt aaagtataga gtgtgcggcc 360
 tgccaaatag tagagaagaa atcgatgaaa gtgaaagcga gtanaagatg aggtatanag 420
 aatggc 426

<210> 3450
 <211> 427
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-068-Q1-E1-H7
 <400> 3450

tgaattggag aagatatctt ccttagatac ttggaagctt gtgcttggtg caagacaaaag 60
 agtggataat atgttacagc gactacacaa gctgacgagt atcttgtcct ttttatactc 120
 gggcgaacaa ccgagagtgg actatatcgt tgctgaggat gaagcaagtt gggaaaagtt 180
 gtggagagga aaacgcgagg tcattggata tacttttgaa gcagctttac agaaaacttg 240
 tattgtggaa aaccaattga gggagtggaa aaagaaactc gatagtctag cagacaatta 300
 ttcgttgggt acgagagcct atgatgcgag aatgtgggtca ttggacctca tcgcaactat 360
 tatgagtgtc tgttttgcag tttttggaat gtttcacaat tctttgggtta ttatgtccaa 420
 ttgcccc 427

<210> 3451
 <211> 417
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-068-Q1-E1-H9
 <400> 3451

gaaagttcca agtcttcttc gatcgaaagt gactcggaag aactagaatg acattacgga 60
 tctcgataaa tgaaagtaag tgtatgcagt tgggtattga tatgtaagag tagagcagcc 120
 ttagtgtgata gagaacggtc ctgggatgag agcaggactg agagtgtatg aagactttat 180
 tattgtctgtg gatggcttga ttgtcgagga agacgaagat gagatatctg aatattttaa 240
 gaagaaaaca ggacaatatg tcaagctagt ggtttggaac tgtctggatg aagaggaaag 300

agagggtttcc ttgttggtca acgagccaac taaggagagt ggtagttgg gaggattgt 360
acgatatgag tcacttttcc acgctacaga atatgtctgg caatgtataa gtgtcgt 417

<210> 3452
<211> 152
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A10

<400> 3452

tcgagccacg cgtcagcttc atcttaacgg tacaacaagt gtattttggt actgcgtttt 60
gtacggtatg cttcctatta aattgcatct gtgtgttcag ctctgtctcg aattttgtgg 120
tatgtacgg tagcctctcg tagtctgagg tc 152

<210> 3453
<211> 244
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A2

<400> 3453

aggcagatat taccgaaata tgccagagag cttgtaaact tgcaattaga gaatcgattc 60
agaaggaaat tgagcttcaa aaacaaagag aggtcaatcc agactctatg gaagaagaag 120
ttgatcccggt tctcatgttg acgaggaagc acgttgaatg agagtatgaa gtttgcaaga 180
cgttccggtta accgatgcgg atgtgcgtcg ctatgagatg tacgcgcaaa acatccaagc 240
tacg 244

<210> 3454
<211> 138
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A3

<400> 3454

gtcagggatt agaacatgcc tgcgagtaga aagagatgta gcgctatatt tctacctagt 60
gcaagcgaag aagtctgaaa tacgacttgt agactgatcg ttttcttttt gccaatgggtg 120

aaaagagtgt aactcgct

138

<210> 3455
<211> 305
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A4

<400> 3455

agccacgcg tccgccacg cgtccgggaa aaaaaaaggc gcgacgacgc atgctcaacg 60
tggtgtctac tgctcgatcat ttcgtagcgg tggcgggctt tttacgacga cgacgacatg 120
gtggttgctt cctgtcgaaa cctttttgta ctagagttga agaacaagga aaacttatag 180
tatccgaaac cgaagatgat acccgattag atcgtttctt gaaacgccgt attggtaaatt 240
tgctcagtc ttaattagaa aattatatcc gaaaaggatt tgtaaggata aatgggcaat 300
tatta 305

<210> 3456
<211> 122
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A8

<400> 3456

cggcccgacc cacgcgtcag aagtcacagc aagaacgtga ctgggttttg tctcagtttc 60
gctctggtaa gcaaccgttg atgggttgcta ccgacgtagc tgcgacaggt ttgggtaagt 120
at 122

<210> 3457
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A9

<400> 3457

agccacgcg tccgccacg cgtccgcaaa aatatgagca agttgacgtt aacattcttc 60
ttgttacttg gcattgcagt gtatgctatt gcaggacctt tgaaagattc taccgtagcc 120

tcaaaagtca gaggatatag tagtgcttat actccaactt attcatctcc ttatgaggca 180
 tcatatccta cttatactac ttatccatgg ataaagcctt gtgctgaagc ttgtgccgga 240
 tgcctctatt gctatcaaca atacaatttt tattatcctt atgggcttga tatcctgtac 300
 tgcaacaact ttgacaaata ttgtccagct ggatatgttc gaccatctcc ttatgaatat 360
 tcttcttatt ctctgtggagc atatacttca tcttcttcct atgcgactcc aaccta 416

<210> 3458
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-069-Q1-E1-B11
 <400> 3458

acgaggattc tgtgacgtat cctagaggca tcacggccag aggatataac tcagttatat 60
 gaagttctta gacatcgagt gcctaagcga gtcctaaagg aagcttaatg acctcgaatt 120
 aacggactat cgtgttcggt gtcaattgga agcttattcc tgtaaaccgg caggttttga 180
 caaaaaattg agcaaactgt tggagcaaag gttgttgga caacttgaag cttctccaag 240
 ggcattccaa gcgtctcccg tgggctcttt agaagaccaa agtgcccgca agacattaat 300
 caacctcatt tgcacactga acgctgcgca ccaggattac gactttagct cgctgcagct 360
 ttcaagactg aaacgtgtcc aagatgtaca cgcacttcag cagcacgtcg actcgtgt 419

<210> 3459
 <211> 264
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-069-Q1-E1-B8
 <400> 3459

aggccaagtc accagccacc gttctcgtgt gatgttcgca agcaaagcaa aagagtggcg 60
 aaaacacccc gacataagtc cgtggacaaa ctttaaggct tgctttactg gttttggaac 120
 agctttggca ctttttaccg gttatgttgt tttagaacag gcttattact atttttacaa 180
 gcctacacag acgcaagtcc ccgagacgaa atcggaagaa cttggctcct gagtttcgtg 240
 ttcttgtaaa gttgggacct caccg 264

<210> 3460
 <211> 414
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-069-Q1-E1-B9

 <400> 3460

 gcgtcagccc aaacgtccgc ccacgcgtcc gcaagtagcc aatcgacaac gaatactttc 60
 ttgcaaacat tttcgggtata ttatgtggaa ggaatgctca caaagcttga aagccttggt 120
 gctttcctcg ttgtacaggt cattttcttt ggagattgcg gagacactag aacaaagaaa 180
 cattttcacc ggcaccaagc ctttggttatt tttggcaaag atttcagagg atggtaagta 240
 ttttatgggtg gtgtatatat ctatctatct atgtgtatgg gatgattgac tatcgctcgtg 300
 ggtaagaatt tcacaatggc aagtttggtt tttggcgctg aacgattcca ggtcatgctg 360
 ttattttctc gttcatttgc agcacagtat tttggatatg ctcgctcatg taag 414

<210> 3461
 <211> 253
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-069-Q1-E1-C1

 <400> 3461

 cgcgtcagac caaaattaca caccgcgtgt gggtgaccgt gtctgacatg gacgcagacc 60
 agtacagtaa acagccatac ttttggccaa acatgttgct acacggagat caagattcaa 120
 ttttggattc tattccgtta tcaatgcgat aagcacagtg aaacgaacga tataaactgt 180
 ctgatcagtt ggtaactggt ttaaaatata tctcccata catctcccgt ggcgtcacta 240
 gtcgatgcat gtc 253

<210> 3462
 <211> 446
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-069-Q1-E1-C10

 <400> 3462

aatttacggg ctcgagcacg cgtcagttgt gtcgtttcaa aaggctccat tgtgggtcca 60
 tcggttttgg ttgactccaa gacacatatg cctaagaact cacggcttgt tcgtagcaat 120
 ctactatcct tttcgaatga aatggaagac ttgaatatag attctagtgt tgcagtttct 180
 agggaaaagc aagttggaag tgcttcttcc tactctttat ggcaagaaac acttgatgaa 240
 acagcacaac aacaagacag cgaatcgtec gtggatgaat tggaacaaat agatagaaag 300
 gaatcggaag atattgcagt agtggagaat agagaggaag ttagtgccac acctgattca 360
 ttatctttca aatcttcttc cagttcttca cctccaatgg aaagaaaagt tgctcttcaa 420
 gagataaaag atactttcca acgagc 446

<210> 3463
 <211> 145
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-069-Q1-E1-C12
 <400> 3463

cgacgcacgc gtaagcccac acgtccgcca gccgtccgcc cacgcgtccg tgtgtttcct 60
 tgtaagaata ggagaacaac cttgaaaaat agctttgtag agagaagagt ttgtttttca 120
 gtaaagcata ttggtacttt acatc 145

<210> 3464
 <211> 205
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-069-Q1-E1-C2
 <400> 3464

gcgtaagccc acgcgtccgc ccacgcgtcc gcggacgcgt gggtttgtca gaatcttga 60
 gtaagcacag gatcgacatt ccgtacgttg tttgctgctc tcgtatctca tcaattcttt 120
 gaaggatttg ctgtccgtac tagtgtttcc gaagcacact ttggcacgtg gaccactata 180
 gtaatggtac tttgctagtc tttgg 205

<210> 3465
 <211> 399
 <212> DNA

<213> Cyanidium caldarium
 <223> Clone ID: LIB190-069-Q1-E1-C4
 <400> 3465

cgcgtcagcc caagcgccg tgcaccttac catggacacg aatctcaaga atacttacgc 60
 tgctgggtgac tggtgtcgag taagctgata gcaattggtc caagagttgg tgtaacacgc 120
 gtatttgctc tcaatggccg atatagtgag atatttcggc gttggcatta cttgacaatg 180
 gcttgcaata tgtccgactt gatggaaagt tgacttgtag gcaaagatcg aaagtcttgt 240
 ctagtttcag gttggactag tcagatcgca tgagtactgc aaacattttg cttgtctctt 300
 tgaaggctgg tggagttggt ttaaatttta cctctgcaag tcaggtgttt atattggacc 360
 cattgtggaa tcctgcagtg gaagaacaag ctatcgata 399

<210> 3466
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-069-Q1-E1-D11
 <400> 3466

cccacgcgtc cgagcaagcg tgaaccgtga gggtagttca tcatggttga gacaaaactt 60
 caagatgggtg ttagtgcttc tctttggact gttcgtctct tcctctacac agttatttta 120
 gcattctctg ccactatcat tggcttggat ggacgtaaag cagacaacat atggaacgac 180
 agcttattct atgatgggaa gtacattaac ttttgtgctt attctgcctc ttctgttgta 240
 gaaggagggg accatggagc gtgtaaatat gtcatggcgt tggcgtctat aagtttgatt 300
 ctagtctttt tcttgtggct ttttacattt gtagatgcgt tgtatcctat tcttaccaag 360
 ttttggttta ttgaattggg tatcaacgtg tttcaaaca tgtgggtggtt ggt 413

<210> 3467
 <211> 205
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-069-Q1-E1-D2
 <400> 3467

cgcgtcacga ttcactgccca tttacttgat ggacagaatg ggaagaagag tgctgtggtt 60
aactttatta ccaggagtgc tcgttggatg tttcattata ggcttttagtt tccggagcta 120
gcatcatcca tgggtccacga acgaatttac attgggggta ccaatacata atacatgttt 180
tgcggttctg gtacgcgacc ccatg 205

<210> 3468
<211> 412
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-069-Q1-E1-D5
<400> 3468

cccacgcgtc cgcccacgcg tccgagctac ttcaactgtc caaagtgttt cagactttta 60
cagaaaaaca attttctct agcgtctcca agttccagct tcccgatcta ccctatgact 120
atggcgagtt ggaaccttac atcagtgcag aaatcatgag acttcaccac caaaaaacac 180
caccaaacct atgtcaacaa cttgaatgtc gcattggaaa agatccacaa ggcagaagaa 240
gctggtaacg tgggtgatat gatcgcgctg caaaagatgc tcaaatttaa tggaggaggt 300
cacgtcaatc actccattct ttggcacaac ttgggtcccg tgaataaagg gggaaggtag 360
tccccccgat ggaccattct taaaaccagt ggaaaaagaa ttcggctcat tg 412

<210> 3469
<211> 165
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-069-Q1-E1-D8
<400> 3469

ctcgacgcaa gcgtacacat caggtttaga tactcgctga acttatgcat atcattaatc 60
ggaggaacag ataccaactg gaattcccct agtagcgggc agcgatgcgg gaagaggcca 120
ctatgagaat cctctttttc gttttgagaa tagaggagat gtatt 165

<210> 3470
<211> 278
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-E1

<400> 3470

cacgcgtcac gcccaagcgt cgcgccacgc gtccgggatg ccacccttat tggtaacaagt 60
agcctattgt attcatgatg tgccacctat atctacctgt gtacgcacta agttctccga 120
gttttggaga agtcatcacg aggaatggcc caagcaaaag cacatgttgc aagccgatca 180
aagacaaccg ttgaatgaat tgctcatccg accaagttaa tacagcttga atcgatgccc 240
tcctccataa aacccatctc gtggcatttt tttttaat 278

<210> 3471

<211> 240

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-069-Q1-E1-E2

<400> 3471

cacgcgtcag aatgaangag aaatggaata tgacaaaaga atgtcgtcag aggaggaaca 60
agtggaaacc tctacttttg aacttttcgag agaagccgag gaagcagcga taaaagcaag 120
aaacttaacg gaaaggattg aaaagttttt ctcgaagagt taccagagcg agaagagaga 180
tatcgaaaaa atggcttcag acaacgatgg agtgactaac ttcgatgaat cctaattggtt 240

<210> 3472

<211> 253

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-E3

<400> 3472

cccaagcgtc cggcattata ggagtgattg gagatatgga tagttatcag ttgccagatg 60
ccaagggctt taccaatttg ataaggtatc ttggaggtgt aacgcacgag agaatacagg 120
aaagaaggga ccaagtcttg agttgtacca acaaagactt ggtagacttt gggtcggtat 180
tggaagtgt tgcttccaat ggtagcatatc ttgccgtagg tagtgaacaa tctttataac 240
aagccaatgc aca 253

<210> 3473
 <211> 385
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-E9

<400> 3473

gcacgcgtca ggacaaacat ttgtcgatca aaatgcttca agttggcttt tcctagaaat 60
 attcgatctc atatgatata cagtgcctagt gaatcgagta cggatagtga tatcgaattg 120
 atatcttatt ccgataataa accatggaat acgagtattc agcaaccaca agagagttgc 180
 cccaactctt ctactcgtag aatactctta atacttgtgg gtatatcagt gctctggcaa 240
 gacatgatta tacatggaat tggtaagtaa atgatggtag aaagtgtgtc aggatgaatt 300
 gcatactcct ctgcaatgtg aaaactatgc tatcgagtaa ttgtctcaaa acaagcctaa 360
 tgttgtgggt agatgtaacg ttaca 385

<210> 3474
 <211> 417
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-F11

<400> 3474

agcaaaatcc cgaagggtgg gattgttgtt gtctccagca gcccgtttgc gtctgtcttc 60
 aaagtataca atttctttgg ttgttatatt tgtgtatata aacttggaat gggaacaaag 120
 aaacaacata ttatgagcgt ttgtaggtac gagagaaaaa aggggtgtctt caactgttta 180
 ttttcgatga ccacgctgca accgtacgta tgtagtgtaa acgcggtagt tttgtagtgt 240
 tttgtgttct gtgaagcctg tctcattaca aaaagtaacg agatacgtgg atttgtaata 300
 atattagcat tgttcaagga aacttcactg ttactctgaa caagtgggta tagttttcga 360
 cttgtcaggg aaaaggcaac agcctgacag ttataagttg gaggcgtcac cagtaaa 417

<210> 3475
 <211> 403
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-F2

<400> 3475
 agcggacgcg tgggaggacg cgtgggaact tgttctgcat gagaattccg accacacgga 60
 atctgaaacc agtgccttga atagtccagt gggttcgggt cgcacaaacc accaagacaa 120
 cgaccaggag cagcatgacc atccatccaa ccttttctac aagttacttt ttggagatgc 180
 atctgatgaa gaggaagagc caaagtcgat gaaagcagtt tcctatgaaa gtacgcatag 240
 tggaaaagat tccacttcgt ttctgtccgt tgctacatca acaaccgata accggaagac 300
 gcaaatatcc gatcattcca ttccatcctc ctccaatata gatatgagcg attctaacga 360
 gaaacaacag cctattcaaa gtaatgataa tagtttgga gaa 403

<210> 3476
 <211> 327
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-069-Q1-E1-F5

<400> 3476
 agcccacgcg tccgcccacg cgtccggtgg gttgtggagt aagtgcgctt ggcaacaaac 60
 taaaagatgg caagaagaat catcggagct taaatgtctg acgctactgt agcgtctcta 120
 tttagtgtga aaatggtgtt ctaccttaca atacttgctg tctctatcac tattgtgggt 180
 cttatgggta agagtccga cggatatttg gttcacagtg ttccagcgaa agacgaatat 240
 tgtgcataca agtcttcct tcaagtaaac caccacggca tagcttcta ttgcaagtat 300
 atcatggctg tagcagctat tggtttg 327

<210> 3477
 <211> 421
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-069-Q1-E1-F9

<400> 3477
 aggaggttgc ttcttggtca tccaagacga tccttgaaac attgccatcg ttgttattct 60
 ccgtccatcc acatgtcaaa tacaactccc gagaacccta gtgcagagag actactagaa 120
 tgggaaagta cactagttaa agagttgcaa acgcttcgtt ttccttcacc cgtttcattc 180

atctattctc ctctagagta tgcgtggcct ttgcacgaag aatatgttcg tcgatattat 240
 cgtccaacag cacgtgtttt attcgttgga atgaatcctg gaccttttgg aatggtccaa 300
 agcgggattc cttttggtga tgttggtatc gtcaaagagt ggctggatat tcgtggcgat 360
 cttgtattca cagcgttacc tgagcgtgtg catcccaagc gacctatttt aggactgcat 420
 t 421

<210> 3478
 <211> 412
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-069-Q1-E1-G1
 <400> 3478

agaaagccaa gtgaggaaaa gaaggcaagt agagggcggc ccgagaaagg agagggcgta 60
 agacgtgata cagagtagga agaaaagaga agagagctag aaaggaggta aaagaagagt 120
 aaaaggacta gaagaggtag ggaattcacg aggaaggagc gtgaaggaag gaggaatccc 180
 aagttatcga ggaagaaaaa gcttcggtga aagcgtgaac ggattttgta cacactgccc 240
 gtcaagttct ggaagtgtgc taggaataag caccgagaagt agaagagagt agggaaaagaa 300
 gaaaggaagt gaagacgtaa gacgtgaaaa aaaagcgtaa gacgtgatac agagtaggaa 360
 gaaaagagaa gagagctaga aacgacgtaa aagaagagta aaaggactac aa 412

<210> 3479
 <211> 364
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-069-Q1-E1-G10
 <400> 3479

aggagagaca gacagatggc caacgctggt caagatggcc ttgtgcaagt caacaaacat 60
 agaaaagtaa agagattgca agaagataat attttgaata gagcactatc acaaccagga 120
 gatgtatttc tgtgcttttg caacatccag ttgttggtga atgcagaaag agctattata 180
 ggaaatatta cttgtccaga aagtatcgaa ttgtgtcgtc tattagctgg acatatagca 240

gtttggttcg atgaacattt ggatgacttt cgtttgaag ctatcttggg agcactattg 300
 tgtacttggt attgtgagtg gaagcgtttt gaaggagaat tggnggtaca agaatggaat 360
 gaat 364

<210> 3480
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-069-Q1-E1-G3
 <400> 3480

ggggagggag gaggatgcaa ggttggaaga aaccagtcac aaccgatgct tttggaaaca 60
 gagtaactta tgtgttgaaa agatatttca acgcacctac tactggagaa gaggttgccac 120
 attcgttggg tggcatgtg accgatgcag atacgttggt acggcacaaa gggctgggag 180
 aagaacagc gtattttctg aaagaagacg ctcgcaagtt tgaaaagttg gcaaacagc 240
 tgaaaagtgc gttgaattca cggaaactaa tgacaaaaga acaactcaaa gtggccatgg 300
 aacagagagg aatacaagta tctgaagagg gtttagagga cttgcttcgt ccaaaagagc 360
 acattcgaat ctcggatgca agtagcagtg gtacgtaaga acaagctaaa gac 413

<210> 3481
 <211> 400
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-069-Q1-E1-G5
 <400> 3481

ccttgtcgac agtgtgaagc ttgcagaaag ttgaccaact ttgccagggt ttgcactat 60
 gtcgggtcaa aacttctttt gagaagaaac caaatattga gaactaaagt cccgtgggta 120
 cttttatgta gttcgataaa gtcttcggat ttgagaaagg cagacagagt ttgttttttt 180
 gtagctgacg cagctatttt gtcaagtagc actagaaatg agttactgac tgcctttgaa 240
 agtctttctt gtttgaaaag cacctttgga aggttcatt atttcgtcgt atccgatgac 300
 agtttgagg aggtgaaaag acatatttcc ttgtcagctg gacaagggtt taaaacggaa 360
 gttttgatca ctctggagg agctcaagtt ttccaacttg 400

<210> 3482
 <211> 280
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-069-Q1-E1-G6

 <400> 3482

 cggctcgacc cagcctaca gtgagattcg ggatagactg gaaattatgg caaaaccacg 60
 tgccaacagc agcggtaaaa agatgtgtag caatcggtag agtcaaaaga actgtagtgt 120
 aaacagacga gtacatacag taacgtgtca agaaggaaca ggaaagcgag agatcagaca 180
 gacaagggat taaaatgcaa gagatccact acaggaataa gcattgaaag attagatatg 240
 acatacacat ctaaattgac gcgagaatac actatgaatg 280

<210> 3483
 <211> 405
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-069-Q1-E1-G7

 <400> 3483

 aagaaagagg caaatacggg aaagcagtaa aagaagaaag agaaaggaaa aaactgagta 60
 tcaggaagaa aagagggagt agatgaggaa agaaagatca aagaagtaag agtaagaaaa 120
 agagtaatgt aaatgaaagc aggaaagtat tgaaaaaaga gaatgtaaag cgcctaactt 180
 ttgcaaaaat gttccaacca gtgaaagaag aagcaaaaag aaagaaaaag aagttaccac 240
 gtaagacccg aagctaattg atcctaagct gtccaagcga agtaaggctg aaccaatatc 300
 tgttgaaaaa gatgtggaag agatagcata agggggtaaa ggccaatcaa agctaattgat 360
 acctggtact cctcgaaagc tatataagta tcgtatgcac gaaag 405

<210> 3484
 <211> 252
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-069-Q1-E1-G9

 <400> 3484

agcccacgcg tccgagtggg tattgcgact cacaggcctg gatggaattt gtcgatcatt 60
 gtctttggga atctagggat tctcatacag cagacagttt agtcgaattt gtgtcttctg 120
 tatgtcttcc ctgagacttg tcagttcttt aacaatagaa cctcctattc tttcaggctt 180
 tttcaattct ttcaatatga tatttttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg 240
 cggaagaaca aa 252

<210> 3485
 <211> 269
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-H1

<400> 3485

agcccacgcg tccgtttgtt ctgaatcaag gagaagtttg tacttgtcca tcgagagctc 60
 ttgttcacga gtccatttac gacaagttta tcgaaaagg gattcaaaga cttggtaaaa 120
 taaagcaagg agatccactc aatttggaga ctatgggtggg agtcaagta tctactgaac 180
 agatggataa gattcttcac tatgtggaat tgggaaagaa ggaagggtgct cagtgtattg 240
 ttggaggaag tggaaagaaa gccattgga 269

<210> 3486
 <211> 430
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-069-Q1-E1-H12

<400> 3486

gcgtaagtga caataatgtt gggctcttgg tcgttattga tgtagacgat gatggtgtta 60
 gtggaaggcc tttgggtatt gtgacagaaa gagattatct tagaaagata gtacttttgg 120
 gacgctcatc caagacaact tatgtaaagg atatcatgac gtctgccaat gatctaatta 180
 gtgtcaaccc ttcagcttct cttagcgaat gtatggaaat aatgactcag aaaagaattc 240
 gtcacattcc ggtaatagat agtgaaggca atgtgaaggg aatggtatcc atangagata 300
 tcgttagaga actagtcgaa gaacaacgac atgaagcgaa gaaactgaat gaatacatc 360
 aggggactta ttaagatggg ctccttcgag gcttgaagtg cttttgttga tttgtgcaca 420

gaataaacat

430

<210> 3487
<211> 431
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-069-Q1-E1-H4

<400> 3487

gactcaagcg tacgcccacg cgtccgcccc cgcgccgga gtggcagcac gtgtgatgta 60
tatatgagaa agaaaatgat acaagagaga actatcagtg gccctgtgaa agagagcact 120
gatgctgata tcagacacac ggtagcagat aggtttacta tagatgtata cattgggtct 180
aggtagcgga gatacgggac cttaatatgtg gcatccggat acatgtgccc atgtccaaat 240
agtacatgan agggtaaaat ccgcttttag cgacgataca cgaaacgggt gtgttagatc 300
aagatggcca agatgtacca cgctgagaat gaacggtttt cctttgagag agtcgtgtac 360
gatgagttaa agtgacagcg acgagagttg tgccagtgc gacaagacga tgaaaccttg 420
caccaagaga c 431

<210> 3488
<211> 244
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-H7

<400> 3488

acgcgtcaga ccaaataaca tgtcgaccca aaacgcagta ggctctcca acttgataag 60
gagaaatagc gttcacgca gttccgggtt aactagttct ggtacgagca cctcggggaa 120
gtatttttcc gcgcgactgt ataacgacga agcaccgggt ttgagagtgg gaccaacgtc 180
tgtaggggtt tttagctatg tctttaaacg ttttggtgta gttttgcatg tgtgggtcaa 240
gttt 244

<210> 3489
<211> 409
<212> DNA

<213> Cyanidium caldarium
 <223> Clone ID: LIB190-070-Q1-E1-A10
 <400> 3489

acgcgtccaa gcaagcgtga accgtgaggg tagttcatca tggttgagac aaaacttcaa 60
 gatgggtgta gtgcttctct ttggactgtt cgtctcttcc tctacacagt tatttttagca 120
 ttctctgcca ctatcattgg cttggatgga cgtaaagcag acaacatatg gaacgacagc 180
 ttattctatg atgggaagta cattaacttt tgtgcttatt ctgcctcttc tgttgtagaa 240
 ggaggggacc atggagcgtg taaatatgtc atggcgttgg cgtctataag tttgattcta 300
 gtctttttct tgtggctttt tacatttgta gatgccttgt atcctattct taccaagttt 360
 tggtttattg aattgggtat caacgtgttt caaacaatgt ggtggttgg 409

<210> 3490
 <211> 209
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-070-Q1-E1-A11
 <400> 3490

atactaagtc gtatcatgag ggtaaatcaa caaagaaaaa gggcgggctg cccaaaaagg 60
 ttcaaagcct tcataatgga acaggccgac gtttcaacct ctccaaaact gtctaccaaa 120
 cttcaattca aaggactgcc ttttaaaaag gtcaagccgg gaaaaaccg ggggtaacct 180
 aattaaacgc cttgaagaa aatccccctt 209

<210> 3491
 <211> 376
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-070-Q1-E1-A12
 <400> 3491

atgccaatTT agaagtgttt tcgaagaatg gggttcgatt tgagaacgat gtttacattc 60
 caacggatga gcctcatggc actattaagg caacgttgtc aaggtcttgc cttgcaaaat 120
 tgtaaagaag cggaacagag cgaacatatc acataagtga gcaacaagaa catttattct 180

attccgtata cttcattttt tttcatttgt ttccggacatc tcattcttta gcctacattc 240
 caatcgcaac tcttgtcgaa actctgcgta ctgtacgtcc ttttctatta cgttcctttc 300
 cttgtattct ggagttagaa accaagtaac gatgaccccc agaaacgcga ctctgtgtga 360
 aacaaactgc agattt 376

<210> 3492
 <211> 425
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-070-Q1-E1-A2
 <400> 3492

agataaggag atttgttgtg gtgtgactgg cagtatgcag acagaagcac aggtagcgga 60
 tagtgcacta acaaacataa gaaagagaaa caccgatgaa gaaagcggag gaggggaaga 120
 agcgagaaaag gagaccacct atggtttagg tgggtgcttat atggatatgg caggcgtcaa 180
 tggccatgga aatccacatt tacaacatgc caacttacct ccagcaatga gacatttttcg 240
 caacgttgca gggaaaccgg ctatattggc actctctgct ttttcaacgg gagcttggtt 300
 tcttggtatt gtgaatgtan gactcatttc ttccgagtta ctctctactg tagcacctcc 360
 agcctttttt tacagtggat tttgtcaa atgttgctgga atcctaactt ttgccaataa 420
 tgaca 425

<210> 3493
 <211> 339
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-070-Q1-E1-A4
 <400> 3493

acggacggtg ggggtctccac caagagagtt gcaaagaaac taatggattt actttgaaat 60
 gtcgcgaaag tgacaatacg acttgcttga gaaaaagcaa gaaactgaag tccgagcttt 120
 gttactactt tactcggttt ggtgtttgca atgacaagca atgtcgcttt gttcacgacc 180
 ccgaaaagggt tttcgtatgt cgaaagttta ttagcggttc atgtatcgat cccaactgca 240
 cactactgca cactacagaa aaggatacgc ttctgtgtg tttaatgttc ctaagtggat 300

tatgtggaaa ggagaactgt cctttcgttc acgttaatg

339

<210> 3494
<211> 415
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-070-Q1-E1-A9

<400> 3494

aggcttggtt agtactgagg tgagggatca ctcggaacc ccaagtgccg tacgtttttg 60
caatttctct tgtataggaa agaaagtatc tgagaagaat tcaggcagcg ttgaaaattt 120
ttcaagtatt tcgcgagtaa taatatgtgc tgaaatatatt ttctactact agaggttctt 180
tttgcttgac gctgtttgaa aacaacggaa tgaatcttgt cctgaccggt cgatatggtc 240
aagggatgac tctaacaggt atccaatgac ttatgttttc catcgtatga caagaggctt 300
gttgggtaaa agtagcggat atgttttgtg cagatttgtg cgtgcttaag ttgctcactt 360
tcctgctgac caagaggttt gaaaacctgc agtctaaaga gcaatatgtt ctcac 415

<210> 3495
<211> 350
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-070-Q1-E1-B1

<400> 3495

acgcgtcgac caagcgtcgg ccaaggcttc ggcggaccct tggccggccc cttgggtcat 60
tcattcagtt ctgccccaac caaccaaaca ccttcaaaga aacttcaagg tgcggaaaaa 120
gccttattgg tatggtttta aatagatgcc gctacccatc tcttttgtga gtcacctttt 180
gtagtccatt cttaacaac cacggtgaac caagcaaccc attggtctgc catattatgg 240
aaggaatatg ctaaagcgga ttcacgttgg ggtagatttc atgactgcac ggggtggcttg 300
gnagtgccta cctctatatt atggggctct ttatcttttag cttgtgcgta 350

<210> 3496
<211> 205
<212> DNA

<213> Cyanidium caldarium
 <223> Clone ID: LIB190-070-Q1-E1-B11
 <400> 3496
 aaggaaaaag tatttcttca agtggcagaa agtttaaag aaaaagtcta tgtagataaa 60
 agaaagtatc gaattttgag tcatctttcg ttaccagaac atatccaggg tttgttaact 120
 acggaagcct gtgcttcacg cctacacgtt gtggacatga gaagtgtcag ttttagtgga 180
 atgaaagaaa attcccaaaa atatg 205

<210> 3497
 <211> 390
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-070-Q1-E1-B12
 <400> 3497

aaccaggcgt ccggattgta cgaatattcc gacatatgtc taggtggcag ctgcatctgg 60
 tacgaaagca tcacagaata taattgagc cttcaagagc caacatgatt gccaaagtcaa 120
 gtgctgttca tcgacgcctt tgtagcctct ggatatttcc attgttcctg gtgttggttt 180
 taccgatcct caagttgcta cagtcggaat gaccgagcag caagccaagt atgccggcat 240
 agatactgat agtcgagttt ttcatttttg tcatcttcct cgggcaattg taaactttga 300
 tgaacgtgag tggatcaagt tggatgata taaacagagt ctcttacttg ttggagctac 360
 aatcgtecca ccttgtggaa gagaaatgaa 390

<210> 3498
 <211> 333
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-070-Q1-E1-B2
 <400> 3498

aaattatggc gtccggttaca accaaggata atttaatttg gtttgaaagt tcctttccct 60
 taaaaatcca aaccggagga aacggttggc caaaaaagg acacganaag tcaatttcnt 120
 aaganagacg cttcaaaaca atctataaga tggcgactca tctagaccct ctgtattttg 180

ccacaagagt gttttacgag attgaatggg aacttgttct attcaccata gtcgctgcac 240
 cttggtgaca ccaaaataaa aggacgaaca agaaattttg ctatgccaga aacaagcata 300
 aaaactgagc gactgggttg taaaaacaag cac 333

<210> 3499
 <211> 361
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-070-Q1-E1-B3
 <400> 3499

cccccaaaa atgttatccg gaatccatac aagttattat tacaataata attatcctaa 60
 aaggaatcaa cggtataaac cttgtgggtt gttggaattc ttattcaggt gagaaagctt 120
 taaagatagc ttctgaaata agctattctt tggtagaagt acctgtcata gacccttgt 180
 ttgatactca agctaccaa caactcgcag acaagtatgg cttacgattg tcatgttctg 240
 tangattatc ccaagacaca gatataagta gtttggatga gtctacaagg aaacaaggag 300
 aacaagtact gatgaccgca gtggaaagag cacacgctat tggctctccg atagtttgtg 360
 g 361

<210> 3500
 <211> 152
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-070-Q1-E1-B4
 <400> 3500

ccttggttaa aattgtgtta atgaaaaatt gattccggac aaacaactta aagaaacaag 60
 gaattaccaa gacctggaaa attaaaacca attaccccaa ttaccaaacc atccaaaaaa 120
 attacaaaag gataagcaaa actttaacct tt 152

<210> 3501
 <211> 392
 <212> DNA
 <213> Cyanidium caldarium